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## A GENERATIVE GRAMMAR OF KANNADA

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Chapter One

Kernel

# Summary of Chapter One (Constituent Structure)

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This chapter consists of a 'kernel grammar,' an ordered set of expansion rules; these rules generate terminal strings on which all the later transformation rules operate to yield actual Kannada sentences.

## Symbols and Conventions

- + precedes free forms or constructions, in the rules; in the notes and elsewhere, it means phonemic juncture
- precedes free forms or constructions that may change places with any other similarly marked form in the rule, usually making no grammatical difference; emphasis is not reckoned grammatical; where it does contrast structurally, the note will mention it
- ^ precedes bound forms
- precedes bound forms that may be affixed to any of
  the \* or + marked items in the rule
- means that the enclosed items are optional
- { } means that the enclosed forms are paradigmatic: the items that are arranged one below the other are potential choices and may substitute for each other, but may not co-occur
- [] mean the same as {}, with one difference: when two or more of them occur in a rule, bearing the same subscript, the order within the square brackets is significant; A,B,C in the first bracket corresponds to a,b,c in the second, and so on, in the example below. Where the same items occur (A,B,C) it is meant that they are in the same order as in the first bracket.

$$\begin{bmatrix} A \\ B \\ C \end{bmatrix}_{\mathbf{i}} + \begin{bmatrix} \mathbf{a} \\ \mathbf{b} \\ \mathbf{c} \end{bmatrix}_{\mathbf{j}} \xrightarrow{----} \begin{bmatrix} A \\ B \\ C \end{bmatrix}_{\mathbf{i}} + \begin{bmatrix} \mathbf{a} \\ \mathbf{b} \\ \mathbf{c} \end{bmatrix}_{\mathbf{j}}$$

---> means 're-write what appears on the left hand side
as what appears on the right hand side of the arrow'

---> means that the rule is a transformation rule

Subscripts mean a concord relationship, i.e., two
items with the same subscript agree with each other.

Items with no subscripts need not agree with any

other in the rule.

An explanatory note follows each rule, and some examples of sentences generable by the rule (given the previous rules and the later lists) follow the note. cited in the rules, as in the lists, are in morphophonemic writing, and those in the notes in phonemic writing. The glosses are given in parentheses after each cited form in the notes, or in parallel columns where columns of items are cited. Examples are given in phonemic Whenever possible, the Kannada items are numbered; and the corresponding English glosses will carry the same numbers. This implies again no systematic equivalences, but only clues to the differences in order, etc. between the English translation and the Kannada original, and serves to keep the English intelligible as well as identify the chief Kannada items. Spaces indicate external open junctures.

$$S \longrightarrow \# \left\{ \begin{array}{l} S'^k \\ Gr \\ N \end{array} \right\} \left\{ \begin{array}{l} & \\ & \\ \end{array} \right\}$$

The rule presents three kinds of Kannada utterance that may occur between pause junctures #. To two of them a clitic R may be added. Gr is a set of words like havdu (yes), and greetings like namaska.ra (salutations) to which a vocative voc may be added. S'^k is a sentence to which a gender-number-person feature is attributed (^k). N' is a nominal that can be used with a {'} intonation, meaning address, like Ra.ma' (O Rama'). I covers interjections.

Intonation patterns are omitted from this presentation.

They may easily be included in the generative pattern

(cf Stockwell\*1961, by introducing a first rule of the form

and expanding the IP in a later section.

Gr^voc = namaskara ·ri Greetings (honorific plural) (here facetious)

N; Kittu! (a shortened form

for Krisna)

<sup>\*</sup> Stockwell, Robert P., "The place of intonation in a generative grammar of English", Language vol. 36, No. 3, 1960. 5

$$S^{*}k \longrightarrow A^{k}j + B^{k}j$$

S'^k is next analyzed into two pieces, each of which has now k the g-n-p feature, i.e., the two pieces agree in the gender-number-person feature.

The concord A^k<sub>j</sub> + B^k<sub>j</sub> eliminates some rare but perfectly possible non-concords - as in a fairytale where a heroine in male disguise is identified:

But as these are not in the general run of occurrence, and as these can always be generated by suspending the above general concord rule by a specific one, we list no exceptions under this rule.

$$B^{kj} \longrightarrow \begin{cases} A ^{kj} \langle + \text{ alla} \rangle \\ \langle A^{k} \text{ an } + \rangle & VP_{t}^{kj} \\ VP_{in}^{kj} \end{cases}$$

B is first expanded because it includes A in its three possible (K. 11b) exponents. The other two are a transitive VP<sub>t</sub> with A^k an as the object (an being the accusative suffix) and an intransitive Verb Piece VP<sub>in</sub>. A^k^an is shown as optional, as it is often omitted in colloquial speech. So the distinction between VP<sub>t</sub> and VP<sub>in</sub> is in the potential presence of the object for VP<sub>t</sub>, rather than in its obligatory actual presence in all cases. Further, some VP<sub>in</sub>'s can take a restricted class of objects, cognate objects, as in

avnu<sup>1</sup> vond<sup>2</sup> arac<sup>3</sup> aracda<sup>4</sup> He<sup>1</sup> yelled<sup>4</sup> a<sup>2</sup> yell.<sup>3</sup>

This latter fact is taken care of by a rule after the verb lists ( Top 35 ).

A^kj + A^kj avnul hudiga2

Helis) a boy2

A^kj + A^kj + alla avnul hudiga2 alla3

Helis not3 a boy2

A^kj + A^k^an + VPtkj kittul ra·mu·n2 hodida3

ra·mu·n2 kittul hodida3

hodida2 kittul ra·mu·na2

Kittul beat3 Ramu2

A^kj \* VP<sub>in</sub>kj

kittu<sup>1</sup> vo·dida<sup>2</sup> vo·dida kittu Kittu<sup>1</sup> ran<sup>2</sup>

Verb Phrase VP includes an optional time phrase  $\mathbf{T}_{\mathbf{q}}$  that agrees with the tense suffix  $t_q$ . The Verb Vb, transitive or intransitive, is followed by  $t_q$  and concordial suffixes or a negative  $\langle 1 \rangle$ ^illa (l^illa means, didn't, and illa haven't). Or, Vb may be followed by imperative li, several modals subsumed under Bahd, and negatives Neg, which have no concord restrictions (no kj follows or precedes them). I 'illa is separated from the other negatives as it participates in the  $\mathbf{T_q} \boldsymbol{\cdot} \boldsymbol{\cdot} \mathbf{t_q}$  concord. it is the negative form for the verb iru to be, and can also be introduced with it in a later Top. There are a couple of verbs in this idiolect, notably ka.nu to see, which have person-number distinctions in the negative. They are treated after the lists, and the relevant forms introduced by Top (38 p233).

$$A^{kj} + T_{q} + Vb_{in} + \begin{cases} 1i & = kittu^{1} \text{ na·le}^{2} \begin{cases} barli^{3} \\ barb^{h}du^{4} \\ barba \cdot rdu^{5} \end{cases}$$

$$t_{q}^{kj}_{i}$$

$$barta \cdot ne^{6}_{i}$$

Let<sup>3</sup> Kittu<sup>1</sup> come<sup>3</sup> tomorrow<sup>2</sup>

K might come<sup>4</sup> tomorrow

K shouldn't come<sup>5</sup> tomorrow

K comes<sup>6</sup> tomorrow

a) 
$$Vb\begin{bmatrix} t \\ in \end{bmatrix}_i$$
  $\longrightarrow$   $\langle Adv+ \rangle \begin{bmatrix} V_t \\ V_{in} \end{bmatrix}_i$   $\langle \hat{r} \rangle \langle \hat{r} \rangle \langle \hat{r} \rangle \langle \hat{r} \rangle$ 

b) 
$$V_{t}^{i} \longrightarrow \begin{cases} V_{t} \langle \hat{s} \rangle \\ V_{in} \hat{s} \end{cases}$$

c) PV ----> 
$$pv \left\langle i \right\rangle \left\langle i \right\rangle$$
  $\left\langle kol^n \right\rangle$ 

Vb's, transitive and intransitive, are expanded to include an optional adverb, and the causative suffix s which can be added to either kind of verb. Two s suffixes may be added; the first being a transitivizer in the case of V<sub>in</sub>, the second being the causative. When only one is added, V<sub>in</sub> is both transitive and causative; with both, it has the additional meaning of 'cause to cause'.

All compound tenses like vodsidda (he had driven, etc., and aspect-features like vo.disbitta (he drove it away), are takenedare of by the PV's introduced here.

PV's are post-verbs or aspect-markers. i is the past adverbial-participial suffix. Details and examples are in the notes to the verb-lists where pv is expanded. Alternative solutions are suggested elsewhere (p. 218).

$$Adv + V_{in} ^k = be \cdot g^l vo \cdot dda^2 (He) ran^2 quickly^l$$

$$V_{in} ^s ^k (avnu) be \cdot g^l (ga \cdot di \cdot n)^2 o \cdot disda^3$$

$$(He) drove^3 (the cart)^2 fast^l$$

$$\mathbf{T}_{\mathbf{q}} \qquad \stackrel{----}{\longrightarrow} \qquad \left\{ \begin{array}{l} \mathbf{F} \\ \mathbf{P} \\ \mathbf{I} \end{array} \right.$$

Time phrases are of three kinds, according to their agreement with  $t_q$ . The agreement restrictions are given by Tob (rule 6,7). If one chooses to consider this agreement a semantic matter and not a grammatical one, this breakdown and the later Tob will not be necessary.

$$A^k_j + T_q + V_{in}^k_j = avnu^l na \cdot le^2 barta \cdot ne^3$$

$$nenne^4 banda^5$$

$$ivattu^6 barli^7$$

He<sup>1</sup> will come<sup>3</sup> tomorrow<sup>2</sup>
He<sup>1</sup> came<sup>5</sup> yesterday<sup>4</sup>
Let him<sup>1</sup> come today<sup>6</sup>
etc.

$$t_{q} \xrightarrow{----} \begin{cases} d ? C \\ ut \end{cases}$$

Tense suffixes are of two kinds according to the kinds of stem they select: past d, and present ut. C is contingent, which has the same stem as the past; so it is indicated as bound to d.

For examples see later rules 15, 17, etc.

Adv of rule 5 is expanded:

- a) a Nominal piece with a case affix, optionally followed by a post-position selected by it;
- b) mimetic or onomatopoetic words;
- (c) adverbs, to be specified by the next rule;
- and e) certain post-positional particles of location and time, occurring by themselves.

Restrictions on Adverbs are given in the next rule.

Examples for items, in the order given:

allind a ce beyond that (alli=there + inda=instrumental)

bhagganta 'saying bhag', (of something catching fire)

sumne merely

me·le above

a.ce outside

## Kernel 9

This rule gives us different kinds of adverbs, and their particular order-restrictions. adv 1 may occur before adv 2, adv 1,2 before adv 3, but not the other way around. Any of these may occur by themselves before verbs. When all the items are in angle brackets, at least one item must be chosen.

adv l bahila a lot, very adv 2 solpa a little adv 3 tannige cold

bahila solpa very little bahila tannige very coldly solpa tannige a little coldly

but not \*solpa bahila, tannige bahila, etc.

A k ca ---- A k a 
$$\begin{cases} g \\ ind \\ al \end{cases}$$
 Genitive  $\begin{cases} Dative \\ Ablative \\ Locative \end{cases}$ 

This rule expands ca (case-endings) into the three cases, dative, ablative and locative, added to the genitive (i.e., Argenitive = oblique stem). The case-endings are added after gender-number markers. m/f nouns take the genitive before the datives; cf. their the morphophonemic rule that gives the dative allomorphs (p. 191). It may also be noted that the case-endings are added to the entire Ark, which includes all the gender-number suffixes. The following example is that of a neuter noun:

mara tree

mara•na tree (Acc)

marakke to the tree (dat)

marada of the tree (gen)

mardinda from the tree (abl)

mardalli in the tree (loc)

Here is a sample chart of the 'semantic load' that three Kannada cases, Dative, Locative and Ablative, carry in the language; the Genitive and the Accusative do not need any comment, from this point of view. Roughly the three cases correspond to certain English prepositions, and the forms that include them function like English prepositional phrases; as the comparison suggests, the variety of uses for these in the daily idiom is bewildering and no system of semantic categories has yet been set up to take care of all of them. The variety of the usage can further be seen by a look at the Post-positions that select particular cases (L.6,p.136). The small list of English prepositions used here is supposed to be suggestive of the semantic functions, no more.

	ΑT	AMONG	BY	FOR	FROM	IN	OF	TO	WITH
Ablative			1		2	3	4		5
Dative	1		2	3	4		5	6	
Locative	1	2				3	4		

Ablative:

- 1. avninda yi. kelsa ma.disde. 3
- 2. me.strindal pa.tha2 kalita.3
- 3. sukhadind idda. 2
- 4. yi. kurci<sup>1</sup> mard<u>inda</u><sup>2</sup> ma.diddu.<sup>3</sup>
- 5. nan kannindal nodde.2
- 1. I got<sup>3</sup> this job<sup>2</sup> done<sup>3</sup> by him. 1
- 2. He learnt the lesson from the teacher.

- 3. He lived in happiness:
- 5. I saw it with my eyes.

## Dative:

- yent gante.gl barti.ni.2
- baro· tingilge nammagu·g² ent varsa vayassu·3
- hat ru·pa·yigl va·c2 konkonde.3
- mane g mane vyatya• sa yiritte•
- avnu papak hedirdo.nu.
- yidann<sup>1</sup> avn<u>ig</u> kodu.<sup>3</sup>
- I will come 2 at eight o'clock.1
- By next month (for) our child ('will be') 2• eight years of age. 3
- I bought<sup>3</sup> a watch<sup>2</sup> for ten rupees. 1 3•
- From house to house there will be differences.
- He is a man who is afraid of sin. 5•
- Give<sup>3</sup> this 1 to him. 2

# Locative:

- avinnal yent gante<u>·1</u>2 no·dde·3
- kuridralli vokkanniddavne ra• ja• maysu•rnalli armane yide• adul mardal ma•diddu• 3

- I saw<sup>3</sup> him<sup>1</sup> at (about) eight o'clock.<sup>2</sup>
- Among the blind, the one-eyed fellow2 2. (is) king.<sup>3</sup>
- In Mysore<sup>1</sup> there is  $^3$  a palace.  $^2$ 3.
- That (is) (a thing) made of wood. 2

a) A 
$$\longrightarrow \left\{ \left\{ A^k \right\} \right\} + A'$$

b) 
$$A' \longrightarrow \begin{cases} Adj \\ N \end{cases}$$

A, the nominal piece, may always be preceded by Adj (adjectives) and A^k^a (a being the genitive). This is a recursive rule, generates an infinite series. Now A of rule is unpacked into adjectivals Adj, Nouns N, I and II person pronouns Nn. The recursive rule, always to be used sparingly, is introduced here because it describes most simply all the possibilities of attribution. The possibilities of predication (predicative adjectives, etc.) are taken care of by the expansion of A^k; those of attributive phrases by the Top'(8).

The possibility of all the Adj's in series being numerals or Pr<sub>123</sub>'s is eliminated by a Tob (10); they may occur in series only in co-ordination.

$$A^{\prime}k^{\prime}a + A^{\prime}k^{\prime}a + A = a \cdot 1 \operatorname{doddannan}^{2} \operatorname{mu \cdot rne \cdot 3} \operatorname{maga}^{4}$$
That big brother's third son 4

$$Adj + Adj + A$$
 =  $mu \cdot r^1 dod^2 haldi \cdot mane^4$   
 $three^1 big^2 yellow^3 houses^4$ 

Adj^k = doddavnu the big man

= mane, l hudiga, 2 si.ta 3 house, l boy, 2 (the girl) Sita 3

Nn = na.nu, l ni.nu 2
I, l you 2

Kernel 12

Adj of rule 11 is broken down into adjectives Ad, numerals ordinal Nu^ne, cardinal Nu, indefinite quantifiers Nu 1, ella ('all') and the pronominal forms Pr123 (the remote and proximate demonstratives and the interrogative). Vondu and yeridu (one and two) are separated from Nu's (cf. K. 22) because they have gender-number distinctions; so do Nu 1 and ella. (Tob 8). That the rest of the Nu's do not take k is shown by kernel rule 22.

The above rule also gives the positional privileges of the various types of adjectives. Where all the items are in angle brackets, at least one must be chosen. Further order-restrictions are to be found elsewhere (Top 10).

mu·r mane three houses (Nu)
cik mane small house(s) (Ad)
ella· mane all houses
kelav mane some houses (Nul)

mu.rne. mane the third house (Nu^ne) ya.v mane which house(s) (Pr3)

ya.v mu.r bahila cik mane Which three very small houses?

Ad 
$$\longrightarrow$$
  $\langle adv 1, 2 + \rangle \langle ad \rangle$ 

Ad of previous rule can be of three kinds, adv 1, adv 2, and ad· adv 1 and 2 may occur before ad or by themselves.

Before the person-number-gender values can be assigned to k in the verb we need to expand Nn^k into the first, second and reflexive persons, as in this rule. All of them can be pluralized.

a. 
$$\begin{bmatrix} na \cdot \vec{n} \\ ni \cdot \vec{n} \end{bmatrix} ^{pl} + X \begin{bmatrix} d \\ ut \\ d^{c} \end{bmatrix}_{j} ^{k} ----- \begin{bmatrix} na \cdot n \\ ut \\ d^{c} \end{bmatrix}_{j} ^{pl} + X$$

$$\begin{bmatrix} d \\ ut \\ d^{c} \end{bmatrix}_{j} ^{k} ----- \begin{bmatrix} na \cdot n \\ ni \cdot n \end{bmatrix}_{i} + X^{c}$$
b. 
$$\begin{bmatrix} na \cdot n \\ ni \cdot n \end{bmatrix}_{i} + X \begin{bmatrix} d \\ ut \\ d^{c} \end{bmatrix}_{j} ^{k} ----- \begin{bmatrix} na \cdot n \\ ni \cdot n \end{bmatrix}_{i} + X^{c}$$

$$\begin{bmatrix} d^{c}e \\ d^{c}e \end{bmatrix}_{i} \\ ti \cdot {}^{c}\begin{bmatrix} ni \\ ya \end{bmatrix}_{i} \\ [e \cdot {}^{c}n \\ i \cdot {}^{c}ya \end{bmatrix}_{i} \end{bmatrix}_{j}$$

Where X is all that precedes tq in K 4.

These two rules expand the three-tense verb paradigm for the first and the second persons. First the plural endings are given, as they can be derived from the singular ones (given in b), by the addition of vi and ri, and making the necessary morphophonemic adjestments.

Ohio a morphophoneme used elsewhere in these rules; it signifies the deletion of all that follows it, when the form is placed before certain suffixes (in this case, the plural endings given in a.). A general morphophonemic rule will take care of this later (Tob 51).

na·nu<sup>1</sup> vo·dde<sup>2</sup> I<sup>1</sup> ran <sup>2</sup>
na·vu vo·didvi We ran

ni·nu vo·dti·ya You run

ni·vu vo·dti·ri You (pl) run

etc.

$$\begin{bmatrix} na \cdot n \\ ni \cdot n \\ ta \cdot n \end{bmatrix}_{i} ^{pl} \xrightarrow{----} \begin{bmatrix} na \cdot v \\ (ni \cdot v \\ ta \cdot v_{1}) \\ ta \cdot v_{2} \end{bmatrix}_{i}$$

Now the plural forms of the three pronouns of K 14 are given. ni.nu (you) has two plurals, ni.vu and ta.vu, the latter being ultra honorific. ta.nu the reflexive has a form identical with the plural of ni.nu, so it is numbered: ta.vu.

Kernel 17

$$\begin{bmatrix}
na \cdot n \\
ni \cdot n \\
na \cdot v \\
ni \cdot v \\
ta \cdot v_{1}
\end{bmatrix}$$

$$+ X^{1i} \xrightarrow{----} \begin{bmatrix}
na \cdot n \\
ni \cdot n \\
na \cdot v \\
ni \cdot v \\
ta \cdot v_{1}
\end{bmatrix}$$

$$+ X \begin{bmatrix}
tini \\
\emptyset \\
o \cdot na \\
i \\
o \cdot nva \cdot gli
\end{bmatrix}$$

$$i$$

Where X is all that precedes li in K4.

The imperative paradigm for the first and second persons, both singular and plural is displayed here. Na.nu has no special imperative form, the present tense ending being used instead. Ni.nu has a zero ending.

ta·nu and its plural ta·vu<sub>2</sub> are left out of this and the previous two rules, as it has the same paradigms for the tenses and the imperative as all other nouns which it may substitute for; so it is included by a Top under the third personal pronominals that substitute for all nominals.

ni·nu ho·gu You go ni·vu ho·gi You (pl) go ta·vu ho·go·nva·gli Let it be that you (hon) go·

na·vu ho·go·na Let us go

a) k 
$$\longrightarrow$$
  $\begin{pmatrix} m \\ f \\ n \end{pmatrix} \langle pl \rangle$ 

Where X is not a noun.

Now values are assigned to k for all its remaining occurrences: they are masculine, feminine, neuter, and their
respective plurals. (As indicated earlier, all k's with
the same subscripts in any formula agree with each other
within the formula, i.e., they have the same values for
k.) That is, in nouns, verbs and the pronominals, there
are three gender- and two number-oppositions.

b) indicates that only nouns have all the six possible distinctions, of three genders and three plurals for each of them; in verbs and pronominals masculine plural and feminine plural are conflated into one epicene plural.

Kernel 19

$$\mathbf{a} \cdot \begin{bmatrix} \mathbf{u} \mathbf{t} \\ \mathbf{d} \\ \mathbf{d}^{*} \mathbf{C} \end{bmatrix}_{k} \begin{bmatrix} \mathbf{m} \\ \mathbf{f} \\ \mathbf{n} \end{bmatrix}_{j} \begin{bmatrix} \mathbf{t}^{*} \mathbf{e} \\ \mathbf{d} \\ \mathbf{a} \cdot \end{bmatrix}_{k} \begin{bmatrix} \mathbf{t}^{*} \mathbf{e} \\ \mathbf{d} \\ \mathbf{a} \cdot \end{bmatrix}_{k} \begin{bmatrix} \mathbf{t}^{*} \mathbf{e} \\ \mathbf{t}^{2} \end{bmatrix}_{j} \mathbf{i}$$

The three tenses (present, past, and contingent) and the corresponding gender-number endings are shown here for all occurrences other than those accounted for by the previous rules (14a and b). Morphophenemic adjustments have to be made for t^e^n etc. before we get the actual forms. b. gives the epicene and the neuter plural endings, again requiring some adjustments.

ra·ja ra·jya·n a·lta·ne The raja rules the kingdom ra·ni ra·jya·n a·lta·le The rani rules the kingdom ra·ja·ra·ni ra·jya·n a·lta·re The raja and the ra·ni rule the kingdom etc·

na.yiglu ra.jya.n a.lya.vu Dogs may rule the kingdom (contingent, neut., pl)

a) 
$$N^mf^pl$$
 ----> 
$$\begin{cases} Nc \\ N^mf \\ f \end{cases}$$

b) 
$$N \left[ \begin{array}{c} m \\ f \end{array} \right]_{i}$$
  $\longrightarrow$   $N \left[ \begin{array}{c} m \\ f \end{array} \right]_{i}$  1,2,3

c) 
$$\mathbb{N}^n$$
  $\xrightarrow{---}$   $\begin{cases} \mathbb{N}^n_1 \\ \mathbb{N}^n_2 \end{cases}$ 

The plural masc-fem nouns are divided into those which have a singular (Nym) pl) and those which don't (Nc).  $\{f\}$ 

Both masculine and femine nouns are sub-divided into three classes according to the plural allomorphs they take.

Neuter nouns have two subclasses.

$$V_{[in]_i}$$
  $\longrightarrow$   $V_{[in]_i}$   $\downarrow^2$ 

Verbs, transitive and intransitive are subdivided into two classes according to the masculine past allomorphs they select. This expansion is required for the later morphophonemic rule Tob 50.

a) 
$$\operatorname{Nu}^{\underline{k}}$$
  $\longrightarrow$   $\left\{\left\langle\operatorname{nu\cdot r} + \operatorname{laksa}\right\rangle \left\langle + \operatorname{nu\cdot r} 1 \right\rangle + \operatorname{sa\cdot vra} \right\}$ 

$$\left\{\left\langle\operatorname{nu\cdot r} + \operatorname{laksa}\right\rangle \left\langle + \operatorname{nu\cdot r} 2\right\rangle\right\}$$

$$\left\{\left\langle\operatorname{nu\cdot r} + \operatorname{laksa}\right\rangle \left\langle + \operatorname{nu\cdot r} 2\right\rangle\right\}$$

b) 
$$nu \cdot r = 2 \longrightarrow \langle nu \wedge nu \cdot r \rangle \langle + nu \cdot r = 1 \rangle$$

c) nu·r l ----> 
$$\langle nu^{\wedge} \rangle$$
  $\langle hatt \rangle \langle + nu \rangle$ 

Underlined elements to be taken or left out together.

All adjectives (K ll) may take a k; numerals are an exception. But vondu and yeriqu take k's.

Three rules generate numerals from 1 to 99,999,999.

laksa is a million, sa.vra a thousand, nu.rua hundred,

hattu ten; nur 1 gives numbers from 1 to 99; nur 2, from

1 to 999.

nu·r + laksa + nu^hatt + nu + sa·vrat + nu^nu·r + nu·r + hatt + nu =

nu·r<sup>1</sup> lakṣad<sup>2</sup> tombattond<sup>3</sup> sa·virad<sup>4</sup> ent<sup>5</sup> nu·r<sup>6</sup> muvvatt<sup>7</sup> eraḍu<sup>8</sup>

nu hatt+nu = (ombattu+hattu+ondu) = tombattondu 91 nu nu·r = (entu+nu·ru) = ent nu·ru 800 nu hatt = (mu·ru+hattu) = muvvattu 30

hundred million, ninety one thousand, hundred hundred and thirty two 8

Chapter Two

Optional Transformations

## Summary of Chapter Two (Optional Transformations)

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## Symbols and Conventions

- ==> indicates a transformation rule as against an expansion (or 'constituent-structure') rule.
- IS is the 'embedded' sentence in a Double Base Transformation
- IIS is the 'embedding' or 'matrix' sentence
- Top is an optional transformation where both sides are perfectly grammatical sentences. They imply no necessary 'equivalence' in structure, though they may be equivalent in some way.
- Tob is an obligatory transformation where the lefthand side is an un-Kannada sentence generated by some earlier rule. The right-hand side is a grammatical sentence.

Symbols like NP, VP, etc. include not only Nominal and Verbal pieces generated by the kernel rules, but all the nominal and verbal phrases that may be generated in this or later sections also. In other words, except where indicated, there is no hierarchy of rules. Rules written in the later parts of this chapter for convenience may operate on earlier ones. For instance, NP in the first rule might either be A from kernel rule 11, or VB^a^Pr\_1^k from the nominalization rule Top 12.

Sometimes this is noted by enclosing all nominal phrases by 2...2 and adjectival phrases by 1...1 as they tend to be 'boxed' one within another. It will be indicated in the relevant places in the notes to the rules.

≠, denoting non-contrastive or stylistic variation in order is not shown here as the input sentences will carry this information; concord-restrictions are not usually noted for the same reason.

The other symbols are as in the previous chapter.

This chapter will include a few single-base Top's and Tob's that are found immediately relevant to the outputs of the double-based ones. But they are separated out for reference in an appendix.

Sources for the inputs are given briefly at the top rightnand corner of the page. Only the numbers of immediately relevant rules are suggested. Where any sentence can reasonably be an input, no references are given (as in Top 1).

Top 1: Adjectival participles

Source: K. 3,4,7,8,10

VB is any Verb Phrase which ends in the Vb of K. 4, taking the endings listed above in the IS. These endings in the order given above (the order being relevant to the choice of endings in the output) will be denoted by E in later Top's. We do not use Vb at this point just to signify that VB here can be more complex than the Vb of the kernel.

Neg = illa not
ku·dd shouldn't
ba·rd ought not

B = be•k want
be•da don't want
bahd might
sa•k enough

This rule derives adjectival participles (1...1) and nominal phrases (2...2) by a double base transformation. al, g, an are locative, dative and accusative endings. d, ut are past and present tense-endings, l illa is the past negative. z in IIS is any bound form following the NP's. Neg = la.r^k, illa, ku.dd, ba.rd, as listed. In the output, VP; gets three participial endings (dropping concord with NP) corresponding to past, present and negative in IS. The modified noun in IIS may be either the NP; or the NP; of IS. In the output NP; keeps the case-endings; the following example will make both nominalization patterns clear. In the example z is an, the accusative.

(She<sup>1</sup> (is) the wife<sup>6</sup> of 
$$\left\{\text{Ra·ma}^{5a} \text{ who killed}^7 \text{ Ra·vana} \right\}$$
)  $\left\{\text{Ra·vaṇa}^{5b} \text{ whom}^8 \text{ Rama}^1 \text{ killed}^8\right\}$ 

A later Top ( $_{10}$ ) indicates that the NP's may be replaced by a Pr $_{1}$  with the same number-gender, thus nominalizing

the verb itself. This will yield phrases like "Ra.vanan kondavnu" "Rama kondavnu" ("He who killed Ra.vana," "He whom Rama killed").

Adjectivals in Series Top 2:

Source: Top 1, K. 12

$$X + VB^{a}$$
  $\begin{bmatrix} a \\ o \cdot \\ ad \end{bmatrix}$   $+ NP^{k}a + Adj_{K} + \cdot \cdot Y = ====$ 

$$X / VB^{\hat{}}[a] / NP^{\hat{}}k^{\hat{}}a / Adj_{K} = \cdots Y$$

$$\begin{bmatrix} o \cdot \\ ad \end{bmatrix}$$

When after repeated embeddings of adjectival phrases, different kinds of adjectivals are strung together: adjectival participles (Top 1), genitive NP's (K. 11), and adjectives listed in the kernel (denoted here by  $Adj_K$ ). they do so they are in co-ordination, modifying the same head NP; they may then be marked by a / juncture.

Further order-restrictions are found elsewhere (Top 6, Tob 10).

Examples are in the next page. The + junctures would yield ambiguous utterances.

maysu·rnalliro· 1 krisnappin 2 mu·rne· 3 maga 4 the third 3 son 4 of the Krishnappa 2 who lives in Mysore· 1

If /maysu·rnalliro/ modifies /maga/ and not /krisnappa/, yielding 'Krishnappa's third son who lives in Mysore', both the constructions and the signalling junctures will be different:

e·g· maysu·rnalliro· / krisnappin mu·rne· maga

Krisnappin mu·rne· maga has a different derivational history being derived from kernel ll. This entire NP will be modified by maysu·rnalliro·, an adjectival participle derived from Top l.

Top 3: Conjunction and Adjectival Participles with post-positions

Source: Top 1

IS 
$$NP_{j}^{k} + VB_{j}^{k}$$
 ====⇒

$$NP_{j}^{k} + \begin{bmatrix} VP_{j}^{k} \\ NP_{j}^{k} \end{bmatrix}_{l}$$

E denotes the set of endings taken by VB, as in Top 1; as noted earlier, the order of this set corresponds to the order of the participial endings with subscript i.

One way of conjoining two sentences is by certain postpositions following the adjectival participles of the
first verb, yielding phrases like ma·did me·le 'after
having done'. This is shown in the first line of the
right hand side. The second way is to place the two
sentences in sequential order with a / juncture between
them.

avin ho.da / ni.n u. ho.gu. He went, you (also) go.

This is shown in the second line of the right hand side.

Certain post-positions select among the adjectival participles in regard to tense; the negative has a few post-positions that can go with it. Cf. also Post-positions that go with NP cases, under Adverb, for selection in regard to cases. The list of post-positions follows.

This would generate high-frequency expressions of the conditional, like: avnidre (avnu = NP + idda = VP^i^re) 'if he is there', avna·dre (avnu + a·da^re) 'if it were he', when the post-positional suffix re is added to verb phrases with iru, a·gu as the single verb, as the above examples show; or as the second verb of a verb-conjunction:

avnu ma·didre (avnu + ma·d^i + ir^da^re = NP + VB^i + VB^a^re) if he has done (it).

The a.dre may follow any nominalization:

avnu ma·do·da·dre (avnu + ma·do·^adu + a·dre = NP + VB^o·^Pr\_1^n + a·dre)

'if he would do it' (if his doing would happen').

Source: Top 2

Tob 
$$X + \text{hort }_{i} + \text{NP}_{j}^{k}_{2} + \text{VP}_{j}^{k}_{2} = \Longrightarrow$$

$$X + \text{hort } + \text{NP}_{j}^{k}_{2} + \text{VB}_{j}^{k}_{2} + \text{NP}_{j}^{k}_{2} = \Longrightarrow$$

$$\begin{cases} \text{Neg} \\ \text{Pr}_{j}^{k} \text{ n'illa} \end{cases}$$

The post-position hort ('unless') takes only negative verbs in IS or illa (the negative suffix) added to the verbal noun ( $VB_j$   $Pr_1$  n).

Unless<sup>3</sup> he<sup>1</sup> did (it)<sup>2</sup> I<sup>4</sup> will not go<sup>7</sup> cannot go<sup>6</sup>  $((I) \text{ will go}^5)$ 

Note that a bound form re has been included among the Post-poda; all the others may occur freely elsewhere.

Note also the three harge homonyms, meaning 'so that', 'like' and 'as if'. This homonymy was set up to avoid ambiguity in sentence 2 below:

- l. yi. kelsa ago. ha. g<sup>3</sup> na. n<sup>4</sup> ma. dti. ni<sup>5</sup>
  I<sup>4</sup> will do it<sup>5</sup> so that<sup>3</sup> this work is done<sup>2</sup>
- 2. avn<sup>1</sup> ma·do·<sup>2</sup> ha·g<sup>3</sup> ni·n ma·du
  Do it<sup>4</sup> so<sup>3</sup> that he<sup>1</sup> does it<sup>2</sup>
  Do it as<sup>3</sup> he does it

  Do it as if<sup>3</sup> he does it

The unambiguous examples for the three uses of have will make this clear:

avn<sup>1</sup> kalyo.<sup>2</sup> ha.g<sup>3</sup> nin he.lkodu<sup>4</sup> avn<sup>1</sup> ha.do.<sup>2</sup> ha.g<sup>3</sup> elru.<sup>4</sup> ha.do.ka.ga.tye<sup>5</sup> avn<sup>1</sup> sa.ytiro.<sup>2</sup> ha.ge<sup>3</sup> ni.n natsu<sup>4</sup>

Teach him<sup>4</sup> so that<sup>3</sup> he<sup>1</sup> learns.<sup>2</sup>
Can<sup>5</sup> everyone<sup>4</sup> sing<sup>5</sup> as<sup>3</sup> he<sup>1</sup> sings?<sup>2</sup>
Pretend<sup>5</sup> as if<sup>3</sup> he<sup>1</sup> is dying.<sup>2</sup>

The three ha.ge-homonyms have different selectional possibilities as shown by their listings above; a sentence like:

\*avn ma·did ha·ge na·n ma·disti·ni
I will do it so that he did it

is ungrammatical. The ambiguity in sentence 2 above can be cleared only by substitution and by assigning the intonation patterns to the sentence which will differentiate all three meanings, in any actual utterance. This is one of those cases where only a statement of lexical privileges and of intonation will clear up the ambiguity.

No lexical restrictions on  $VB_i$  and  $VP_j$ , the two participating verbs, have been placed here.

Top 4: Adjectival Participles: Nominalization of Verb Phrases

Source: Top 1

In IS, R and S aree the items that flank the verb-phrase in the Nominalization Top output.

In IIS, P and Q are any permissible items that may flank a noun-phrase like yi. sangti ("this news, this affair, this act"). z is any bound affix. In the output 2...2 gives a NP. du is the neuter verb-suffix; here it gives the sense of "the act of ...", yielding an abstract noun phrase. In this last respect is this Top set apart from the previous one. This fact gives the nominalized phrase different substitution-privileges.

avlu<sup>1</sup> / mane·1<sup>2</sup> irla·rad<sup>3</sup> henti<sup>4</sup> ante<sup>5</sup>

It seems<sup>5</sup> she<sup>1</sup> is a wife<sup>4</sup> who cannot stay<sup>3</sup> at home·<sup>2</sup>

nange<sup>1</sup> yi· sangti<sup>2</sup> voplilla<sup>3</sup>

To me<sup>1</sup> this fact<sup>2</sup> wasn't agreeable·<sup>3</sup>

nange<sup>1</sup> henti<sup>2</sup> mane·1<sup>3</sup> irla·raddu<sup>4</sup> / voplilla<sup>5</sup>
To me,<sup>1</sup> the wife<sup>2</sup> not being<sup>4</sup> at home,<sup>3</sup> wasn't agreeable.<sup>5</sup>

(the fact that the wife was not at home)

This Top resolves the ambiguity of homonymous strings like:

From PO: a) yi. kelsa ra.ma {ma.do. kelsa 2 \frac{\text{ma.do.du}}{\text{do.du}} \text{(cf Top 10)}

This work is Rama's (work). 2

From 24: b) yi. kelsa.nl ra.ma ma.do.du2 volle.du3
Rama doing2 this workl is good.3

('is a good thing')

Top 5: Comparison
Source: K. 2,3,4

IS 
$$NP_{i}^{\hat{k}_{1}} + VB_{i}^{\hat{k}_{1}} \begin{bmatrix} d \\ ut \end{bmatrix}_{a}^{\hat{k}_{1}}$$

$$===\Rightarrow$$

$$IIS NP_{j}^{\hat{k}_{2}} + VP_{i}^{\hat{k}_{2}} \\ VP_{j}^{\hat{k}_{2}} \end{bmatrix}_{b}$$

$$===\Rightarrow$$

$$NP_{i}^{\hat{k}_{1}} \hat{k}_{1}^{\hat{k}_{1}} + VB_{i}^{\hat{k}_{1}} \begin{bmatrix} a \\ o \end{bmatrix}_{a} + ha \cdot ge_{3} + NP_{j}^{\hat{k}_{2}} + VP_{i}^{\hat{k}_{2}}$$

Comparison is a special case of the adjectival participle with ha·ge· as Post-position (cf· Top 1, and note). But this has been treated as separately here because this Top has special features not covered by Top 1. If this were to be included in the latter, as it can conceivably be, it would complicate Top 1 monstrously, without any gain in economy, generality or intelligibility.

5a) conjoins two sentences a) that have the same VP lexically, and b) that have any two VP's, the VB in IS being restricted to present and past tenses, while the VP in IIS can include the contingent also (cf. example). have can join IS and IIS, i) if the VB has in the past or the present adjectival-participial ending, ii) if the

 $VB_i$  is deleted and  $NP_i$  takes a genitive ending. When both have the same VP, then  $NP_i$   $k_l$  a or genitive of  $NP_i$   $k_l$  can take the place of IS, as shown by square bracket  $\underline{b}$ .

pika·so<sup>1</sup> peynt ma·did<sup>2</sup> ha·ge<sup>2a</sup> yivin<sup>3</sup> batte<sup>4</sup> ha·kkondidda<sup>5</sup>

He<sup>3</sup> was wearing<sup>5</sup> (his) clothes<sup>4</sup> as<sup>2a</sup> Picasso<sup>1</sup> painted.<sup>2</sup>
('as in Picasso's painting')

He<sup>3</sup> painted<sup>4</sup> like<sup>2</sup> Picasso. 1

5b) IS 
$$NP_{i}^{k} + NP^{k}^{an} + VB_{i}^{d} d_{ut}^{k}$$

$$===\Rightarrow$$
IIS  $NP_{j}^{k} + NP^{k}^{an} + VP_{i}^{k}$ 

$$NP_{i}^{k} + NP^{k}^{an} + VB_{i}^{d} d_{ut}^{k} + ha \cdot ge_{3} + ha \cdot ge$$

5b) permits the deletion of the object if both IS and IIS have the same objects for the verbs in them.

Top 5: Comparison

Source: Top 4

5c) Top 
$$NP_{\hat{i}} k_{\hat{l}} a + ha \cdot ge + NP_{\hat{j}} k_{\hat{l}} + VP_{\hat{i}} k_{\hat{l}} ====\Rightarrow$$

$$NP_{\hat{i}} k_{\hat{l}} a + ha \cdot ge + NP_{\hat{j}} k_{\hat{l}}$$

( $K_1$  may or may not agree with  $k_2$  here.)

5c) is a Top deleting the verb in IIS, yielding verbless comparisons; 'tande ha ge maga' (<u>like father</u>, <u>like son</u>). The two NP's may or may not agree.

The son<sup>3</sup> walks<sup>4</sup> like<sup>2</sup> the father<sup>3</sup> ====⇒

Father<sup>1</sup> like<sup>2</sup> son<sup>3</sup>

(Like father, like son)

Top 5: Comparison

5d) IS 
$$NP_{i}^{\hat{k}} + VB_{i}^{\hat{k}} \begin{bmatrix} be \cdot k \\ ku \cdot dd \\ ba \cdot rd \end{bmatrix}_{i}$$
 ====⇒

IIS  $NP_{i}^{\hat{k}} + VP_{j}^{\hat{k}}$ 

$$NP_{i}^{\hat{k}} + VB_{i}^{\hat{k}} \begin{bmatrix} o \cdot \\ ada \end{bmatrix}_{i} + ha \cdot ge_{1} + NP_{j}^{\hat{k}} + VP_{j}^{\hat{k}}$$

5d) treats of sentences with non-identical verbs in IS and IIS. They are joined by ha.ge (so that), if VB<sub>i</sub> has be.ku (must) / ba.rdu (mustn't). ha.ge, is as in the Post-positions listed on p. 44.

In these rules, where the tense is unspecified as d, ut, etc., any tense can occur.

na·n¹ ho·gad<sup>6</sup> ha·g<sup>7</sup> avin³ nan⁴ tadida<sup>5</sup>

He<sup>3</sup> prevented<sup>5</sup> me<sup>4</sup> so that<sup>7</sup> I<sup>1</sup> couldn't go.<sup>6</sup> ('He prevented me from going')

Top 6: Comparison Source: K. 2,3,11

6a) IS 
$$NP_{\mathbf{i}}^{\hat{}} k + Mod_{\mathbf{j}} \{\hat{+}\} X_{\mathbf{i}}$$

IIS  $NP_{\mathbf{j}}^{\hat{}} k + Mod_{\mathbf{j}} \{\hat{+}\} X_{\mathbf{j}}$ 

$$NP_{\mathbf{i}}^{\hat{}} k + NP_{\mathbf{j}} k^{\hat{}} g^{\hat{}} inta^{\hat{}} lu \cdot + Mod \{\hat{+}\} X_{\mathbf{i}}$$

Mod stands for Ndes (List 25)
$$ad \qquad (13)$$

$$adv_{\mathbf{j}} (12)$$

When two sentences have the modifier-item one may compare the two NP's with regard to the modifier as shown by the above Top. The modifier may be followed by any permissible bound or free item; if it is an adverb the following item will be a verb, if an adjective of the ad-type, it may carry a bound k or be followed by a NP. Ndes, descriptive nouns may either be followed by a NP or occur predicatively. The concord of the embedding sentence, here IS, is kept.

yi. mane doddidu avin hotte doddidu =====>

avin hotte doddidu 

avin hotte yi. mane gintlu. doddidu (Mod = ad k)

His stomach is bigger than this house 3

avin may benki ginta bisya g ide (Mod = adv)

His body is hotter than fire 2

nan<sup>3</sup> maga<sup>4</sup> pika-sogintlu-tu-ja-na<sup>2</sup>

my<sup>3</sup> son<sup>4</sup> (is) a smarter fellow<sup>2</sup> than<sup>5</sup> even Picasso<sup>1</sup>

Top 6: Comparison Source: 6a

6b) IS 
$$NP_{j}^{k} + NP_{j}^{k}^{\hat{g}} inta \langle lu \rangle + Mod + X_{j}$$

IIS  $NP_{j}^{k} + NP_{n}^{\hat{k}}^{\hat{g}} inta \langle lu \rangle + Mod + X_{j}$ 

====>

This rule deals with comparison among more than two ('superlative degree') with reference to the same modifier. As in Top 6a, the concord of the embedding sentence is kept.

On the right hand side of the Top, the first line means 'of the two NP's, NP's and NP's,' the second line 'of all', the third line, 'among them all'. Instead of yerique 'two', other numerals can be used if there are more NP's specified in the comparison; but their generation involves counting the number of NP's, and so is not part of a grammar. For erad'k and ella'k, cf. lists 9, ll. The unsubscribed k's signify lack of concord; but usually, the elements

compared are in concord, though not necessarily.

nanginta<sup>5</sup> nan maga<sup>2</sup> ja·na<sup>3</sup>

pika·so<sup>4</sup> nanmagangintlu·<sup>5</sup> ja·na<sup>3</sup>

pika·so<sup>4</sup> nammibbingintlu·<sup>5</sup> ja·na<sup>3</sup>

My son<sup>2</sup> (is) smarter than<sup>5</sup> I<sup>1</sup>

Picasso<sup>4</sup> (is) smarter than<sup>5</sup> my son<sup>2</sup>

Picasso<sup>4</sup> (is) smarter than<sup>5</sup> both of us<sup>6</sup>

Top 7: Conjunction:
Adverbial
Participles

If IS has a VP with la·r^k (k being concord with NP<sub>i</sub>^k,cf.Tob 22 p.·135), or d and ut (past and present), and IIS shares the subject NP<sub>i</sub>^k with IS, then we may derive adverbial participles. VP in IS, drops its la·r^k and lilla, d, ut, and takes on de, i, and ta· which are the negative, past and present adverbial participles respectively, corresponding to the items in square brackets with the i-subscript in IS· la·r^k means "couldn't," and lilla "didn't."

No concord restrictions are given here, as the input sentences will automatically carry them. Both / and + junctures are possible here.

$$avin^1$$
 ha.dta.ne<sup>2</sup> } ==== $\Rightarrow$   $avin^3$  bhiksa<sup>4</sup> be.dda<sup>5</sup> }

Singing, 2 he begged for alms. 4

The collocations of 2 and 5 are not restricted as all sorts of unlikely-seeming collocations turn up in the language.

Top 8: Conjunction

IS 
$$(X + Y1 + Z)$$

$$===\Rightarrow X + Y1/Y2 + Z$$

If two instances (Y1 and Y2) of one symbol (Y) occur in two sentences of otherwise identical form-class memberships, the two instances may follow one another in the embedding sentence (X + Y + Z).

Examples for different values of Y are given below:

NP: avnu. 1 yivnu. 2 bandru 3 That-he and this-he came. 3

VP: avnu banda 2/no. dda 3/ho. da 4 He came, 2 saw, 3 went. 4

- VB E: (Verb-phras\* with participial or other permitted endings)
  - a) adverbial: avnul hadta<sup>2</sup>/kuni·ta·<sup>3</sup>/tamite badi·ta·<sup>4</sup>
    banda<sup>5</sup>
    Singing,<sup>2</sup> dancing,<sup>3</sup> drum-beating,<sup>4</sup>
    he<sup>1</sup> came·<sup>5</sup>
  - b) adjectival: mu·le·l ku·tid<sup>1</sup>/tale·neritid<sup>2</sup> mudika<sup>3</sup>

    nam ta·ta<sup>4</sup>

    The old man<sup>3</sup> whose head had grayed<sup>2</sup>

    who was sitting in the corner<sup>1</sup> (was)

    my grandpa·<sup>4</sup>

T<sub>q</sub>: hatvarsid hinde 1/ondina 2/madhya na 3/ond gante li 4..

ten years ago, 1 one day, 2 in the afternoon, 3 at

one o'clock 4...

Post-po: adir hinde / munde / olige / horige / huduka dda . 5

He searched behind it, before it, inside it, outside it. 4

The intonation usually required is indicated by the / junctures after each Y. The subtler intonational differences are yet to be studied.

Top 9: Report

9a) (S)
$$NP^k \neq adin \neq VP_X^k$$

$$NP^k \neq S^anta \neq VP_X^k$$

Where IS is any S (entence) in Kannada, and  $\text{VP}_{\overline{X}}$  is a small list given below.

This rule yields instances of repeated speech. anta (a fossilized) present participle of annu 'to say' is the quotative morpheme. VPx k in IIS is usually a small set of words like helu 'say', keelu 'ask', annu 'say', etc.; but all sorts of other verbs like a scaryapatta 'was surprised', atta 'wept', manas maedda 'made up his mind' are quite frequently found after the quotative construction. The latter are derived by the next transformation, by the deletion of 'heeli' in the verb phrase heeli + VP k with any VP as the second verb.

avnu<sup>1</sup> henti·n<sup>2</sup> hodda<sup>3</sup>
nange<sup>5</sup> adin<sup>8</sup> avil<sup>6</sup> he·lidlu<sup>7</sup>

avnu<sup>1</sup> henti·n<sup>2</sup> hodda<sup>3</sup> anta<sup>4</sup> nange<sup>5</sup> avil<sup>6</sup> he·lidlu<sup>7</sup>

'That<sup>4</sup> he<sup>1</sup> beat<sup>3</sup> the wife<sup>2</sup> she<sup>6</sup> told<sup>7</sup> me·<sup>5</sup>:

(adin<sup>8</sup> = that thing (acc·))

Top 9: Report

Source: Top 8

Where S can be any sentence, and VP k any verb.

anta + he·li has the idiomatic force of "because of, following the example of+ in addition to the quotative sense; so does 'anta'.

hention<sup>2</sup> avnul hodda<sup>3</sup>nta heoli <sup>4</sup> yivnuo<sup>5</sup> hention<sup>6</sup> hodda<sup>7</sup>
Because<sup>3</sup> that fellow<sup>1</sup> beat<sup>3</sup> his wife<sup>2</sup> this fellow<sup>5</sup> also<sup>5</sup>
beat<sup>7</sup> his wifeo<sup>6</sup>

'anta + he·li' may be roughly translated as "saying that" but signifies "following the example of, just because."

Top 9: Report

Source: Top 9a

9c) i) 
$$NP^k \neq (NP^k_1 + VP^k_1)^a$$
 anta +  $he \cdot l^k = ===\Rightarrow$   
 $NP^k \neq NP^k_1 \neq VB^a^he \cdot l^k$ 

VP a VP k is more common in writing style than in spoken. But in the colloquial we have phrases like

(He) asked<sup>3</sup> him<sup>1</sup> to come<sup>2</sup> asked him to do asked him to bring

and frequent but unproductive ones like barama.dda 'made him come.'

These are generated above.

baro. ha.ge hellda asked (him) so as to come, is also idiomatic, generated elsewhere (Top 3, of p. 45).

9d) 
$$X + VP$$
 ? anta +  $k \cdot 1$  ^  $k ====\Rightarrow$  he · 1

$$X + VB^{\left(a\right)}$$
  $\left(a \\ o \\ ada\right)^{\circ} Pr_{1}$   $\left(a \\ ada\right)^{\circ}$   $\left$ 

In the Direct Report sentence as generated by Top 9a, we may nominalize the entire reported sentence IS in Top, by nominalizing its verb-phrase with a neuter ending which will give it the force of an abstraction. This seems to be restricted in selection to verbs like he.lu, ke.lu 'say', 'hear'. an is the accusative suffix that will render the nominalized part an object of he.lu or ke.lu.

I heard 
$$\left\{\begin{array}{c} \text{of his} \\ \text{him} \end{array}\right\}$$
 beating  $^{3a}$  his wife  $^2$ 

The English sentence has two different senses according as 'of' is inserted or removed. In Kannada the accusative an is just optional; the sentence may mean ambiguously both 'heard' and 'heard of', because 'ke·lu' may mean both lexically, and will take the same object. But in the antapattern, the sentence will mean only "I heard that he beat his wife."

Top 10: Pro-forms (Pronominalization)

Source: K. 6,9,11,13

List

Q is 
$$\begin{cases} vond + \begin{cases} solpa & a few \\ konca & a little \end{cases}$$

$$\begin{cases} adv_l & some, etc. \\ Nu & l \end{cases}$$
Nu +Nco numerals + counter nouns

This Top yields various pro-forms. Noun Phrases, Adverbs, Locational nouns, Adjectives, Quantifiers, and Time Phrases may respectively be replaced by Pr<sub>123</sub>, suffixed to k, ge, lli, stu, ntha, ga, yielding proximate, remote and interrogative forms meaning

in that order.

na·n¹ ma·ne·na² hat sa·vrak³ nenne⁴ ma·rde⁵

====> avnu¹a yiddanna²a yeṣṭ±k³a ya·va·g⁴a marda?<sup>6a</sup>

I<sup>1</sup> sold<sup>5</sup> the house<sup>2</sup> yesterday<sup>4</sup> for ten thousand<sup>3</sup>

====> When<sup>4a</sup> (and) for how much<sup>3a</sup> did<sup>6</sup> he<sup>1a</sup> sell<sup>6</sup>

this?<sup>2a</sup>

la, 2a, ... are substitutes for 1,2,...

A note may be added here regarding common hesitation—substitutes like English What-do-you-call-it when one is lost for an appropriate word. In Kannada they are usually Pr<sub>2</sub> k, ge, etc. according as it is an NP, or adv etc. that's intended, i.e., the proximate yi form.

nenne<sup>1</sup> yivnu<sup>2</sup> bandidda<sup>3</sup>
yesterday<sup>1</sup> this man<sup>2</sup> had come<sup>3</sup>

Forms like "ye.no. anta. ralla, adikke "" "They say something for that, don't they "" are also frequent.

As here, cases( kke, etc.) are added to them (here adu, "it") as if they are regular nouns.

Top 11: 'Indefinitizer'

Source: Top 10

$$X + Pr_3^{\hat{}} X + Y \longrightarrow X + Pr_3^{\hat{}} X^{\hat{}} 0 \cdot + Y$$

x being the pro-form endings of Top 10.

In the case of Pr<sub>3</sub> x, an 'indefinitizer' particle oomay be added. The resultant corresponds to 'someone, somehow, somewhere' in English, transforming the interrogative function of Pr<sub>3</sub>.

ya·ro· someone
yelligo· somewhere
ya·rigo· to someone
yesto· an indefinitely large
quantity or number
ya·va·glo· at some time

 $Pr_3^*x^*o\cdot$  is incompatible with negative verbs, as seen in a later Tob ( 16 ).

Top 12: Emphatics

Source: as below

Where P is a cover symbol for the following:

e. and u. are exclusive ('only, himself, herself' etc.) and inclusive ('also, even') emphatics. Their distribution is as listed above. We could have scattered this information in the source-rules (as in Top 6), but we chose to put all the possible environments in one rule; this also saves a few Tob's.

## Examples:

- 1. avnu<sup>1</sup> satta<sup>2</sup> antlu.<sup>3</sup> suddi<sup>4</sup> bantu<sup>5</sup>
  The news<sup>4</sup> came<sup>5</sup> saying-also (that)<sup>3</sup> he<sup>1</sup> died<sup>2</sup>
- 2. maysu.rge. arkas bantu maysu.rgu. 
  The circus came to Mysore itself even to Mysore
- 3. avin baro.dikku. modle.ne. mane muridbittu Even before his coming (itself) the house broke down
- 4. avin magine. 2 yivnu.nu. 3

  This fellow (is) also 3 certainly his son 2
- 5. ya.re. bandru. yintha kelsa ma.do.dilla whoever may come (I) won't do this sort of job4

  (cf. later note)
- 6. avin barle. 2 illa 3
  He didn't come at all 2
- 7. avin he.lde.ne. maysu.rig ho.da hel went to Mysore without even telling (us)
- 8. yivin ma.tra a. kelsa ma.qda he.qda be.re 

  He alone did that job too

Note on Pr<sub>3</sub> x emphasis ('whoever, no one, anyone,'etc.)

Like Pr<sub>3</sub> x o. in Top 11, Pr<sub>3</sub> x e. undergoes a semantic shift, yielding forms somewhat like the English 'whoever, whenever, etc.,' and consequently has restricted distributions (cf. Tob 15).

Pr<sub>3</sub> x u. would yield counterparts of the English 'no one, never, etc.', compatible in Kannada with negative verbs, usually (cf. Tob 15).

With Vb°b°o·du ('may···'), however, they have the sense of 'anyone, anything, anytime··', though this usage is somewhat rare.

Other restrictions are to be found in the Tob's Chapter.

Top 13: Extensions of

Bipartite Sentence

Source: K. 1,2,3

$$NP_{\mathbf{i}}^{\hat{}} k + NP_{\mathbf{j}}^{\hat{}} k \longrightarrow NP_{\mathbf{i}}^{\hat{}} k$$

$$NP_{\mathbf{j}}^{\hat{}} k \longrightarrow NP_{\mathbf{i}}^{\hat{}} k \longrightarrow NP_$$

Be•k is a symbol for

E is the symbol for the verb-endings in kernel 4.

In the equational sentence either NP (without alla - cf. K. 3) may be replaced by be.ku, be.qa, sa.ku, etc. and all of these may be followed by a.gu ('to become') with E, i.e., any of the usual verb-endings as in kernel 4.

This also means that a gu with all the verb-endings may be added to any equational sentence.

He<sup>1</sup> became<sup>3</sup> professor<sup>2</sup>

He<sup>1</sup> became<sup>4</sup> big<sup>3</sup>

He<sup>1</sup> should be reckoned<sup>6</sup> my brother<sup>5</sup>

(He is my brother)

a.gbe.ku 'must become' has an idiomatic sense of 'to be reckoned,' 'is':

The above Top, with the Top 7, would yield NP + a gi -type of adverbial phrases:

He grew<sup>2</sup> He grew<sup>2</sup> to demon-size<sup>3</sup>
He gecame demon-size<sup>4</sup> 
$$\Longrightarrow$$

Proverbial sayings (written in the citation-form) like gidava·gi<sup>1</sup> baggaddu<sup>2</sup> marava·gi<sup>3</sup> baggi·te<sup>4</sup>? 'What did not bend<sup>2</sup> as a sapling<sup>2</sup>, will it bend<sup>4</sup> as a tree<sup>3</sup>? can be derived from the terminal strings of the following types of Top's:

IS 
$$NP_{\hat{i}} k + NP_{\hat{p}} k + a \cdot gi + VP_{\hat{i}} illa$$

$$====\Rightarrow$$

$$NP_{\hat{i}} k + NP_{\hat{q}} k + a \cdot gi + VP_{\hat{i}} k^{\circ}e \cdot$$

$$2 (NP_{\hat{p}} k^{\circ} a \cdot gi + VP_{\hat{i}} \wedge ad^{\circ}Pr_{\hat{n}}) 2 + NP_{\hat{q}} k^{\circ}a \cdot gi + VP_{\hat{i}} \wedge k^{\circ}e \cdot$$

The 2...2 which is a nominal phrase is derived by Top 1 and pronominalized by Top 10, and becomes the subject of the sentence on the right hand side.

Top 14: Optional Deletions

In many sentences the subject NP k can be optionally omitted, and is, frequently. As seen in kernel 3, the object too can be omitted, so that only the verb often remains, especially in running discourde where the subject and object are obvious, or previously specified.

$$\langle \text{na·n}^{1} \rangle \langle \text{yi· kelsa}^{2} \rangle \text{ ma·dle}^{3}$$
  
Shall<sup>3</sup> I <sup>1</sup> do<sup>3</sup>  $\langle \text{this job} \rangle^{2}$ ?

These sentences are not felt as response-sentences or truncated sentences as they would often be in English. But mere subjects or objects would be felt as sentence-fragments (and maybe derived, if needed, by a Top as the one above).

Top 15: Optional Deletions

$$NP^{k}[g] + \begin{bmatrix} Nu \\ Nu_{1} \\ Pr_{123}^{st} \end{bmatrix} + NP^{k} + i^{0}r \wedge t_{q}^{k} = = \Rightarrow$$

$$NP^{k}[g] + \begin{bmatrix} Nu \\ Nu_{1} \\ Pr_{123}^{st} \end{bmatrix} + NP^{k}$$

Frequently, an NP k will stand for a mentence if preceded by a quantifier, and an NP with the dative or locative, and if the verb is iru 'to be'.

aving yest maklu<sup>3</sup>?
For him how many children<sup>3</sup>?

vondu·rnall ob ra·ja In a town a king.

a) Top 
$$X + NP^n^a + Y = \implies X + NP^n + Y$$

With neuter nominals the accusative ending is optional.

b) Top 
$$X^n^pl + N^n^pl ====\Rightarrow X^n^pl + N^n$$

X being either VP or NP  $\scriptstyle \bullet$ 

The plural on the N n's are optional, and most often omitted.

Top 17: Optional Additions:

"Indefinitizer"

Source: K. 12

Numeral and NP phrases may be preceded by the indefinitizing  $Pr_3^k$  k^o. Note the concord between  $Pr_3^k$ , the k on the Nu's and the NP. The concords for Nu<sub>l</sub>, ond and yeriq are in Tob (8) and the lists (Nu).

ya·ro·<sup>1</sup> mu·r<sup>2</sup> hengisru<sup>3</sup> bandidru<sup>4</sup> some<sup>1</sup> three<sup>2</sup> women<sup>3</sup> had come<sup>4</sup>

ya·vdo·<sup>1</sup> vond<sup>2</sup> ga·di<sup>3</sup> ho·ytu<sup>4</sup> some<sup>1</sup> (one)<sup>2</sup> cart<sup>3</sup> went<sup>4</sup> (by)

Top 18: Optional

Additions:

Indirect Objects

Source: K. 3

a) 
$$X + NP^k^a + VP_t^k = ====\Rightarrow$$

$$X + NP^k^a + NP^k^g + VP_{tx}^k$$

Some verbs here designated  $VP_{tx}$  take double objects. The second object is marked by the dative g. Below is a sample list:

VP <sub>tx</sub> stands for	badis	serve
0.2.2	bar <sup>0</sup> i	write
	ha•k	put
	he•]	say
	hacc	smear, paint
	hodis	cover (with sheet, etc.)
	kođ	give
	ma•r	sell
	ku <b>ḍ</b> is	make someone drink
	mu•s <del>i</del> s	make someone smell
	no•ḍ±s	make someone see
	tiļ <del>i</del> s	make it known to someone
	to•r <del>i</del> s	show
	• • •	

avinig ka·gda bari Write the letter to him. magu·gl ha·l² kuḍisu Make the child drink milk.²
heṇti·gl suddi² tilisu Make the news known to the wife.

Top 18: Optional Additions: Dative NP

Source: K. 3

b) 
$$X + NP^k + VP_{inX}^k ====\Rightarrow X + NP^g + NP^k + VP_{inX}^k$$

Some intransitive verbs are usually accompanied by a noun in the dative go. Here is a sample list:

staempu<sup>1</sup> kayg<sup>2</sup> antkontu<sup>3</sup>
The stamp<sup>1</sup> stuck<sup>3</sup> to the hand.<sup>2</sup>

avnu<sup>1</sup> pa·pak<sup>2</sup> hedirdavnu<sup>3</sup>
He<sup>1</sup> (is) one who is afraid<sup>3</sup> of sin·<sup>2</sup>

Top 19: 'Impersonal-Passive'

a) 
$$NP^k + NP^k_j$$
an +  $VP_t^k = \Longrightarrow NP^k_j$ an +  $VP_t^n$ 

b) 
$$NP^k + NP^n^a + VP_t^k = ==== NP^n + NP^n$$

If a transitive verb is used in the neuter without the subject, it gets an impersonal 'passive' sense: somewhat as in English 'The book reads well' or 'The rain pours'. Top b) permits the use of a transitive verb as intransitive if the subject is neuter.

- a) avnul mane·n² kaṭṭṭda³ ====> mane·n² kaṭṭu⁴

  nenne⁵ ka·gda⁶ barṭsde² ====> nenne⁵ ka·gda⁶ barṭstu<sup>8</sup>

  He¹ built³ the house² ====> The house² was built⁴

  Yesterday⁵ I got² a letter⁶ written² ====>

  Yesterday⁵ a letter⁶ got written<sup>8</sup>
- b) pust $\pm ka \cdot n^1$  av $\pm n^2$  harda<sup>3</sup> ==== $\Rightarrow$  pust $\pm ka^4$  hari·tu<sup>5</sup>

  He<sup>2</sup> tore<sup>3</sup> the book<sup>1</sup> ==== $\Rightarrow$  the book<sup>4</sup> got torn;<sup>5</sup>

  or, the book<sup>4</sup> tore.<sup>5</sup>

The two terminal strings often look alike, as the neuter objects need not carry the accusative an (Top 16). But as can easily be seen to subject and bensinserted in the first but not in the second, where It is the subject and not the object; note also the concord.

Top 20: Request-questions

from Imperatives

Source: K. 4,17

Kernel 4,17 assigns imperative verb-suffix li to III person pronouns and to all other NP's, ti.ni and o.na to II person pronouns. When the question-marking clitics e. and o. are added to the imperatives, o.na and li can be used interchangeably. o.na, however, is rare and has an old-fashioned flavor to it.

na·n¹ maysu·r±g² ho·gle³?

Shall³ I¹ go³ to Mysore²?

(May I)

avir yi. kelsa ma. do. nve<sup>3</sup>?
Should he (pl.) do<sup>3</sup> this job<sup>2</sup>?

Chapter Three

Obligatory Transformations

## Summary of Chapter Three (Obligatory Transformations)

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## Obligatory Transformations

A few general obligatory transformations (Tob) are given here; they apply directly to the terminal strings of the kernel grammar. They eliminate unacceptable utterances and orders that are generated by the kernel grammar.

Many of the less general Tob's are placed after lists and particular Top's which they pre-suppose.

For anyone who would like to see all the Top's in one place, they are gathered (with cross-references) in an appendix. This scatter, like several other things in this work, is made in the interests of readability, we hope, without prejudice to the hierarchy of rules.

===> indicates a transformation as opposed to an expansion (or 'constituent-structure') rule.

Other conventions are as in earlier chapters.

Tob 1: Clitics and Vocatives

Source: K. 1

$$S_1^k \text{ `voc } = S_1^k \text{ `R'voc}$$

Where the vocative precedes the R(clitics), it is shifted to the end after the R items, and rendered optional.

avin ma·dda {alve? alve·nri?

He did it, didn't he? He did it, didn't he, sir?

Tob 2: Greetings, Clitics, Vocatives

Source: K. 1

Vocatives and clitics cannot co-occur when greeting precede them. R here includes vocatives as a closure feature.

Greetings 1 sir; 2 namiska•ra<sup>1</sup> ri•<sup>2</sup> namiska·ra<sup>1</sup> alve·nri<sup>2</sup> Greetings, (isn't it so?) did you say?<sup>2</sup>

Tob 3: Clitics

Source: K. 1,2,3

$$X + Vb_t g_{in}$$
  $g_{a}^{n}$ 

ta 
$$\longrightarrow$$
 d  $g_a \longrightarrow$  a  $0 \cdot d$   $0 \cdot d$ 

Where X on the right means all the items that precede the VP on the left, and Y all the bound forms (tense-markers, etc.) that may follow VP. ga is any adjectival-participial ending (Top 1 ): a, o., ad (past, present, negative), corresponding to ta on the left-hand side. ta represents d, ut, d \^illa (past, present, negative). ut\

The six possibilities of  $X\langle + Y\rangle + W$  as generated by kernel 1,2,3 are:

1. 
$$X \langle + Y \rangle + W$$
 na·n<sup>1</sup> mane·g<sup>2</sup> bande<sup>3</sup>
2.  $\langle Y + \rangle X + W$  mane·g na·n bande
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3. 
$$\langle Y + \rangle X + W$$
 mane-g bande na.nu  
4.  $W \langle + Y \rangle + X$  bande mane-g na.nu  
5.  $W + X \langle + Y \rangle$  bande na.nu mane-ge  
6.  $X + W \langle + Y \rangle$  na.n bande mane-ge

The three possibilities of  $X\langle + Y\rangle + W^2Z$ 

2. 
$$X \leftarrow Y \hat{Z} + W$$
  
and 3.  $X \leftarrow Y + W \hat{Z}$ 

not expanding the # symbol.

The compounded possibilities of + and a in kernel rules 2 and 3 generate some ungrammatical sequences like the ones given on the left hand side of this rule. None of the noun-phrases (A'k) can take a clitic R unless the verb changes into an adjectival participle with a neuter ending, gan.

ra.jal ra.ni.nalve kondiddu? (cf also Top 4) Was it not the queen<sup>2</sup> that the king killed?<sup>3</sup>

ra·ja alve ra·ni·n² kondiddu?3 Was it not the king who killed the queen?2

For, ra-ja alve ra-ni-n² kondavnu, Was not the king the man who killed the queen? cf. kernel 1 and 2 yielding an equational sentence with the clitic, alve-

Tob 4: Clitics and Pronominals

Source:  $K \cdot 1, 2, 3, 11, \frac{1}{2}$ 

By kernel 1, R(clitics) can be attached to either part of a bipartite sentence; kernel 2, 10, and 11 make adjectives participate in this relation, and  $Pr_{123}$  are adjectives, by kernel 11. X is any permissible item other than  $Pr_{123}$ .  $Pr_{123}$  are the remote and proximate demonstratives, and the interrogative respectively. This rule introduces limitations on the clities that can occur with  $Pr_3$ , the interrogative. Only the vocatives (masc, fem, mf plural) o., e., ri can occur with the interrogative. Further both parts of the equational sentence can't be interrogative  $Pr_3$ .

\*ya.vnu avnalve.nri? =====>

ya·vinri² avnu?<sup>3</sup> Who,¹ sir,² is he?<sup>3</sup>
avnu¹ ivnalve·nri?<sup>4</sup> Isn't³ that-man¹ this-man,² sir?<sup>4</sup>

Unlikely sentences like, avnu<sup>1</sup> avnu<sup>2</sup> (he<sup>1</sup> is he<sup>2</sup>) are produced by these (and other) rules but they are not eliminated, as they are perfectly possible.

Tob 5: Tenses and their Negatives

Source: K. 4,7, 5a

b) d 
$$\langle c \rangle$$
 ^ l ^ illa ====> d ^  $\begin{cases} d \\ l \end{cases}$  ^ illa o  $\Pr_{l}$  ^ n ^ illa olla  $l$ 

- a) The negative present of iruin K. 5 (expressing the equivalent of English 'has') is illa.
- b) The negative l'illa can take only the past tense. The negative of the present is expressed by a neuter verbal noun (Vb^o.^Prl^n) and illa; the negative of the contingent by a 'compound' verb (ma.dide. ho.da.nu, 'he might go without doing it'). The stem for negative l'illa is the present stem; for illa the past (d illa).

Time-phrases and Tenses Tob 6:

Source: K. 4,6,7

 $X = Vb_{t,in}$  in kernel 4.

Kernel 6 subdivides time phrase  $T_q$  into F, P, I; the present rule specifies the restrictions on them, in terms of the Tq ... tq concord.

F occurs only with the past and the contingent, P only with the past, I with past, present and contingent.

Time-phrases and Imperative Tob 7:

Source: K. 4,6

$$P + \cdots X^{1} = \Longrightarrow P + \cdots X^{d}_{k}$$

X is Vb in kernel 4.

F, P, I have no concord relations with Bahdu, Neg etc. (cf. K. 4). But P is incompatible with an imperative verb. This is eliminated by this rule.

\*nenne barli 'Let him come yesterday' =====> nenne<sup>1</sup> banda<sup>2</sup> (he) came<sup>2</sup> yesterday<sup>1</sup>

Tob 8: Numerals and Concord

(cf. K. 2, 11, 12)

Source: K. 1,2,3,11,12

$$\begin{bmatrix}
Nu^{1} \\
Nu_{1} \\
ella
\end{bmatrix}^{n} k + Y^{n} k = = \Rightarrow Nu^{1} \\
Nu_{1} \\
ella
\end{bmatrix}^{n} pl$$

$$\begin{bmatrix}
Nu_{1} \\
n
\end{bmatrix}^{n} j$$

$$\begin{bmatrix}
n \\
j
\end{bmatrix}^{j}$$

Nu, Nu, and ella. agree only with mf^pl and n^pl, having special forms for the epicene pl. (cf. p. 146).

Nu is all the numerals except vondu and yeriqu, as in

K. 22. X may be a modified noun (K. 11) or a B^k as in

K. 2.

\*hattu 
$$man \pm sya^2 === \Rightarrow hattu man \pm sru^3$$
\*Ten  $man^2 === \Rightarrow ten men^3$ 

Tob 9: Numerals

and N n<sub>2</sub>

Source: K. 20,11,12

a) 
$$N^n_2$$
 pl +  $X^n$  pl =====  $N^n_2$   $X^n$   
X being VP or NP•

b) 
$$\operatorname{Nu}_{1}$$
 +  $\operatorname{N^{\hat{n}}_{2}}$  +  $\operatorname{Z}$  ==== $\Rightarrow$   $\operatorname{Nu}_{1}$  +  $\operatorname{N_{co}^{\hat{n}}}$  +  $\operatorname{N^{\hat{n}}_{2}}$  +  $\operatorname{Z}$ 

N^n is divided into N<sub>1</sub> and N<sub>2</sub> by kernel 20, the latter having no plurals (Tob a); if any numeral preceded it, it must be mediated by N<sub>co</sub> or counters (Tob b).

\* hatt akki ====> hat se•r akki

\*ten rice ====> ten measures of rice (seer = a measure)

Other N's can also go with Nu and  $N_{co}$ , with facetious effects:

mu·r ţan pa·nditya three tons of learming
hat mora padya ten winnowing-fans full of verse

Abstract nouns are not treated here as  $\mathbb{N}_2$  n 's or mass-nouns, though frequently they behave like mass nouns and

take counters as above or as in 'a bit of courage'. But contexts may always be found for saying them without counters like hat pa.nditya 'ten (kinds of) learning', instead of hat taraha pa.nditya 'ten kinds of learning; though erid dhayrya 'two courages' does seem a little odd. A classification may perhaps be made among Kannada abstract nouns as countable and non-countable, as obviously sarka.ra, guna, yo.cne 'government, virtue, thought' are more plausibly countable than ga.mbhi.rya, volle.tana, naya 'dignity, goodness, delicacy'. The contrast available in English between 'wine' and 'wines', 'delicacy' and 'delicacies' has no parallel in Kannada, as neuter nouns are only optionally plural. But all abstract nouns can take vondu 'one' in the sense of 'a certain...', or in certain idiomatic usages like the following:

vuttaran pavrişa vond pavrişve?

That sissy's manhood (heroism), is it any manhood?

hudigang ond dhayrya ide no.di/ nambo.d asa.dhya

That boy has a certain courage, you see, (tis) hard to believe.

Tob 10: Order of

Adjectives

Source: K. 11,12

Top 2, List 13

When the recursive rule re-attributives operates iteratively, the series generated is restricted to a) ad's and Nu ne's and, b) to the other kinds of Adj's only if each item is a different exponent of Adj -- that is, we cannot have a series of Pr<sub>1</sub>'s or Nu's. Further, they have to follow a certain order. The following is one example:

Nu ne (the ordinal) is omitted because it is not possible in Kannada to speak of "the three twentieth yellow houses" as it is not in English. But we may speak of "the third twentieth house" "mu·rne. ippatne. mane," which is introduced by the first line of the right hand side.

Tob 11: Conjunction of

NP's: concord, etc.

Source: Top 8

(a) 
$$X + NP_{\hat{i}} \begin{bmatrix} k_1 \\ k_2 \end{bmatrix}_{\hat{j}} \langle ca \rangle + NP_{\hat{j}} \begin{bmatrix} k_3 \\ k_2 \end{bmatrix}_{\hat{j}} \langle ca \rangle + Y^{\hat{i}} \rangle$$

$$\left\langle \begin{bmatrix} ibb \pm r \\ er \pm d \end{bmatrix} \right\rangle = \begin{bmatrix} u \cdot \\ ca \cdot u \cdot \end{bmatrix} + Y \cdot \begin{bmatrix} mf \cdot pl \\ n \cdot pl \end{bmatrix}$$

Underlined u.'s are optional, but if one is chosen, all underlined elements must be chosen.

ca is a case-ending.

 $k_1$  being m,f,n^pl ,  $k_2$  being n^pl ,  $k_3$  being m,f^pl .

These two Tob's adjust the concords, etc. for the conjunction—output for two NP's (Top 8). Where anyone has m,f or their plurals, Y(being NP or VP) will carry mf pl; where both has n or n^pl, Y will carry n^pl. If no Nu's modify the NP's, yibbiru('two people' 'both') in the former and yeriqu('two things' 'both') may be inserted before the Y.

If Numerals modify the NP's, we should have a sum of the numbers mentioned, instead of yibbiru('both') -- but there seems to be (nor need be) no grammatical rule to state the arithmetic of this.

b) 
$$X \neq NP_{i}^{E} + NP_{j}^{E} + NP_{k}^{E} + \cdots + Y^{E} ===\Rightarrow$$

$$X + \cdots + \text{ell$^{\pm}$r$}_{i}^{E} + Y^{mf}_{pl}_{i}$$

E denotes the endings and concords as in a). When more than two NP's are conjoined yibbiruis replaced by yelliru ('all' mf), yeriqu byyella ('all' neuter).

raja·nu· 1 ra·ni·nu· 2 mantri·nu· 3 yella·ru· 4 sabhe·g5 bandru· 6

or, ra·ja<sup>1</sup> ra·ņi<sup>2</sup> mantri<sup>3</sup> mu·ru·jana\* bandru<sup>6</sup> yella·m·<sup>4</sup>

The raja<sup>1</sup>, the rani<sup>2</sup>, the minister<sup>3</sup>, all of them<sup>4</sup> came<sup>6</sup> to the assembly.<sup>7</sup>

\* 'all three people' cf. note above re. the arithmetic of conjunctions.

Tob 12: Pro-Nominalization

Source: Top 10

a) 
$$X + VB^{-1}\begin{bmatrix} a \\ o \cdot \\ ad \end{bmatrix}_{i}$$

$$= = = = X + \left( VB^{-1}\begin{bmatrix} a \\ o \cdot \\ ad \end{bmatrix}_{i} - Pr_{12}^{-1}k \right)$$

$$= VB\begin{bmatrix} a \\ o \cdot \\ ad \end{bmatrix}_{i} - Pr_{12}^{-1}k$$

b) 
$$X + 2 \left(VB_{in}^{-1} \begin{bmatrix} a \\ o \\ ad \end{bmatrix}_{i} ^{Pr_{1}} k\right) 2 + Y ====\Rightarrow$$

$$X + NP^k + (VB_{in})$$
  $\begin{bmatrix} a \\ o \\ ad \end{bmatrix}_{i}$   $Pr_1^k + Y$ 

- a) Any NP<sup>k</sup> may be replaced by a Pr<sub>123</sub> of the same k, by Top 10.
- a) When, by such a substitution, we get a verbal noun, only Prîk may be affixed, if Prîk is chosen, they are no longer affixed but free forms as indicated by junctures. The latter is emphatic; the construction is that of attribution, not nominalization.
- b) When, by the above pronominalizing transformation, a verbal noun VB^ $\langle a \rangle$ ^Pr\_1^k appears, it may be in apposition with NP^k that was replaced by the Pr\_1^k by Top 10. (cf. example 3 below).

- 1.  $nenne^1 ra \cdot ma^2 banda^3 ====\Rightarrow nenne avin^4 banda$  Top 10  $yesterday^1 Rama^2 came^3 ====\Rightarrow yesterday he^4 came$
- 2. monne ho·d<sup>2</sup> avnu<sup>3</sup> ==== $\Rightarrow$  monne ho·davnu<sup>5</sup> Tob l2a ivnu<sup>4</sup> ivnu<sup>6</sup> ivnu<sup>7</sup> i

That-he<sup>3</sup> (who) went<sup>2</sup> the day before yesterday<sup>1</sup>==== $\Rightarrow$  This-he<sup>4</sup>

That-man who went...  $^{5}$  What particular man  $^{6}$  who went This particular man  $^{7}$ 

3.  $\operatorname{ra\cdot ma}^1 \operatorname{monne}^2 \operatorname{ho \cdot da}^3 = \Longrightarrow$  Tob 12b  $\operatorname{ra\cdot ma} \operatorname{nenne}^4 \operatorname{banda}^5$ 

ra·ma, monne ho·davnu, nenne banda Ra·ma, the he-who-went the day before, came yesterday.

Tob 13: Nominalization

of Adjectivals

Source: Top 10

$$X + Adj + Pr_{123}^{\hat{k}} + Y ==== X + ad Pr_{1}^{\hat{k}} + Y$$

The Pro-Nominalization Top 10 allows for the replacement of all NP k by any Pr<sub>123</sub> with the same k. This will yield Adj + Pr<sub>123</sub> k; Adj may be nominalized by affixing Pr<sub>1</sub> k. In both these rules, NP^k means all nominals (enclosed as 2...2, or expanded from A in kernelll); and Adj all adjectivals (enclosed as 1...1, or expanded in the kernel); the example shows the nominalization of an Adjectival phrase.

Ra·ma<sup>1</sup> did<sup>4</sup> this<sup>2</sup> work<sup>3</sup> He<sup>5</sup> did<sup>7</sup> this<sup>6</sup>

2. 
$$\Pr_{2}^{k}$$
 Adj  $\Pr_{1}^{k}$   $\text{yidu}^{1} + \text{ra.ma}^{2} \text{ma.did}^{3} + \text{adu}^{4}$  ==== $\Rightarrow$ 

This (is) Ra·ma 2 done 3 thing 4 This 5 (is) Ra·ma's 6 doing 7 (This is Ra·ma-done-it) 104

Tob 14: Emphatics

Source: Top 12

$$NP^k^e = \left\{ \begin{array}{c} + NP^k^e = \\ u \cdot \\ v \cdot \\ v \cdot \\ w \cdot da \\ v \cdot \end{array} \right\} = = = \Rightarrow NP^k^e = \left\{ \begin{array}{c} + NP^k \cdot \\ u \cdot \\ v \cdot \\ \end{array} \right\}$$

There seem to be many restrictions on the use of emphatics in consecutive items of a sentence. But it seems grammatically possible to have several of them, though the restrictions need further inquiry.

But the above rule offers one restriction that seems grammatical. In a bi-partite sentence both nominal parts cannot have the same emphatic.

This house too<sup>2</sup> (is) surely Rama's<sup>1</sup>
This house, surely<sup>4</sup> (is) Rama's also<sup>3</sup>

But not ra.mandu. yi.mane.nu 'this house also is Rama's also' though in English it looks passable.

One might say, in general, that more than one sort of emphatic particle is rarely used in succession in a sentence.

The second part of the rule eliminates the three post+positional emphatics after Vb, which is a symbol here for verb stem as in K. 5.

Tob 15: Emphatics

Source: Top 12 (cf. note p. 72)

$$\Pr_{3}^{\hat{}} \begin{bmatrix} x^{\hat{}} e \cdot \\ k^{\hat{}} u \cdot \end{bmatrix}_{i} + X^{\hat{}} k = = = \Rightarrow$$

$$\Pr_{3}^{\hat{}} x^{\hat{}} e \cdot + \begin{cases} Vb^{\hat{}} li / \\ Vb^{\hat{}} E^{\hat{}} ru \cdot \end{cases} + S$$

$$\Pr_{3}^{\hat{}} x^{\hat{}} u \cdot + \begin{cases} Vb^{\hat{}} Neg \\ b^{\hat{}} od \cdot \\ t_{q} \langle 1 \rangle^{\hat{}} illa \end{cases}$$

Pr<sub>3</sub> x^e. can only go with imperative Verb phrases or adverbial participles with re u. (Top 3,12) and non-final juncture /; the construction is Followed by a full sentence S.

ya·re. | {barli } 2 mane | katle. 4 be·ku. 5 | bandru. | whoever | may come | (we) must | build 4 the house 3

Pr<sub>3</sub> x u., however, is compatible only with negatives (ba.rdu, ku.du 'shouldn't', etc.), the illa-type of negation (with tense  $t_q$  'isn't, wasn't') and somewhat unusually with  $b^h$ o.du ('might'). Cf. note on page 72.

ya·ru· kole² ma·qilla³a ma·dba·rdu³b

ya·ru·4 kole² ma·dbho·du5

but not \*ya·ru· 4 kole² ma·dta·re6

No one has committed murder should commit b

(The negative in Kannada goes with the verb)

Anyone<sup>4</sup> might commit<sup>5</sup> murder<sup>2</sup>

but not \*Anyone 4 commits 6 murder 2

Tob 16: 'Indefinitizer'

Source: Top 11

Fr<sub>3</sub> ko. is incompatible with negative verbs. Other pro-forms, yestu, ye.nu, he.ge, etc. may take negative verbs.

\*ya·ro·
$$^1$$
 barlilla $^2$  ==== $\Rightarrow$  ya·ro· $^3$  bandru $^4$  someone $^1$  didn't come $^2$  ==== $\Rightarrow$  someone $^3$  came $^4$ 

\*ya.ro. barlilla, 'someone didn't come', can have rare contexts - like 'someone didn't come, can you guess who?' - with special intonation-features. But it is certainly felt to be marginal, unlike:

yeşto. 1 jana 2 barlılla 3
So many 1 people 2 didn't come.

he.go. 1 jana 2 barlilla 3
Somehow 1 people 2 didn't come. 3

etc.

# Summary of Chapter Four (Descriptive Etymology)

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Chapter Four

Descriptive Etymology

## Note on Descriptive Etymology

This chapter will consist of two small "idiom-grammars":

- 1) Compounds
- 2) Reduplication

The section in the lists called Derivation (p. 181-182) also belongs with these two 'idiom'-descriptions; it also deals with word-composition, especially by the addition of transformative affixes, which change items from one sub-class to another (i.e., masculine to feminine) or from one form-class to another (i.e., noun to verb). But we placed it with the listsfor convenience and continuity.

Representative information regarding the more productive derivational or sub-syntactic units (called "idiom", like the section "descriptive etymology" after F.W. Householder, \* 1959) is outlined here.

The problem of compounds is an old and complicated one.

Here we sample only a few productive types, derived from phrases previously generated.

As reduplication may be considered a special type of compounding, reduplications of various form-classes and the differences in grammatical usage are briefly indicated and charted.

<sup>\* &</sup>quot;On linguistic primes," Word, vol 15, 1959

<sup>\* &</sup>quot;(n linguistic primes," Word

Echo-morphemes (first called that by Emeneau) are a very productive specialization of reduplication, and so placed along with these rules. Doublets or rhyme-compounds where both members are words in their own right (hallakolla² = pits¹ and dips,² meaning 'uneven terrain', etc.) are dvandva-compounds with the rhyme-feature and taken care of by the dvandva-compound derivation (p. 116).

Descriptive Etymology: Compounds 1

Source: K. 11

Top (21): 
$$X + N^a + N + Y = \implies X + N^N + Y$$

Top 21 derives endocentric compounds from endocentric genitive phrases whose heads are the second members of the phrase.

The v under k is a morphophoneme, which (by later rule Top  $\bar{3}7$ ) yields the voiced counterpart of the stop.

The contrast between a compound and a phrase is often marked by morphophonemic factors as the one just cited:

Descriptive Etymology: Compounds 21

Source: K. 12, Tob 13

Top (22): 
$$\left(P\left\{Nu + N_{x}^{\hat{n}}\right\} \hat{a}^{pr} \right]_{i}^{m} ====\Rightarrow$$

P is a cover symbol for:

N'n neuter N's

Po Post-positions like volage, horage, etc. ('inside, outside')

Vb^o. Present Adjectival participles

Nu is usually the first three numbers vondu 'one' yeridu 'two' mu·ru 'three'

Top 22 derives an agentive compound (masculine or feminine) from a phrase with a genitive and an agentive; the latter is formed out of a neuter noun to which gender-markers are added via a genitive - e·g· "the big-nose-possessing man" etc· The second member  $N_{\rm x}$  is usually a body-part, though not necessarily. For agentive-formations, see the Transformatives Section of next chapter (p· 181).

hane a kannu a a vnu ====> haneganna

The one with the eye in the forehead ====>

haneganna (a name for Siva)

volage a kannu a a vnu ====> voliganna

The one with the inside-eye ====> The inner-eye man

te·l^o· kannu^a^avnu ====> te·liganna

The man with the eye that 'floats' ====> the floating-eyed-man

The restrictions on the first and second members are not here worked out in any detail.

o ondu kannu a avlu ====> okkanni
The woman with one eye ====> the one-eyed-one (fem)

The morphophonemic rule for these three bound numerals may be stated as follows:

The allomorphs are as in the square brackets on the right hand side, with the first consonant of the second member doubled:

(The loss of the aspiration on the first part of a geminate cluster is automatic: cf.

mu·ru kannu ====> mukkanna 'three eyed one'
Cf. also Numerals (p. 141-142).

Descriptive Etymology: Compounds 3

Source: K. 11, List:ad

Top (23) 
$$X + N^n^a^{ant}a + Nn + Y =====$$

$$X + Nn^Nn + Y$$

This Top deals with the next type, where the first member is N n with ant ha ('like'). In the compound, all the suffixed elements are dropped.

For antha, cf. adjective list under ad.

This rule is given only to suggest that not all  $\mathbb{N}^{\hat{}}\mathbb{N}$  compounds are taken care of by the earlier  $\mathbb{N}^{\hat{}}$  +  $\mathbb{N}$  phrases.

Descriptive Etymology: Compounds 4

Source: Top 11, Tob 8

Top (24): 
$$X + \left\{ N_{1}\hat{k}^{2}u + N_{2}\hat{k}^{2}u \right\} + Y = \Longrightarrow$$

$$X + N_{1}\hat{k}^{2}\hat{k}^{2}\hat{k} + Y$$

Top 24 derives dvandva compounds from conjoined Noun phrases (Tob 8). The compounds are always followed by the plural ending (except in N^n, where the earlier rule (Top 16b) permits the possibility of dropping it).

Usually an order is preserved; hence the subscript numbers 1 and 2. Really no linguistic reason can be given (like the educated English preference for 'he' and 'I,' even "the egg and I" etc.). Where two persons, mythological

or otherwise, are mentioned it is the older or the more prestigious who is mentioned first as  $N_1$ . This is usually the case in the phrases also, though not necessarily.

e•g•

bhi.ma.rjuna ru ('Bhi.ma and Arjuna')

kriṣṇa.rjuna ru ('Krishna and Arjuna')

tande makka lu (father and sons)

ra.ma ra.vaṇa ru (Ra.ma and Ra.vaṇa, ====>.Epic

Hero and Antagonist)

Descriptive Etymology:
Note on Compound
Compounds

Compound compounds: many of the above rules can be iteratively applied to yield compounds like

(N^N) ^N etc.

e•g•

ra·malaksmanara·vana ru

(Compounds 4, iterated)

'Rama, Laksmana and Ra.vana'

(mun^dale) no.vu

(Compounds 1,2)

'pain in the front of the head'

Descriptive Etymology: Reduplication 1

Source: Top 8

Top (25): 
$$X + Y_1^x + Y_1^x + Z ==== X + Y_1^Y_1^x + Z$$

Where  $Y = adv_{123}$ , ad, Post-positions, N, Pr<sub>123</sub> x, Vb<sub>1</sub> x = any permitted suffix

Tob (17): 
$$X + N p^N p^a + Y ==== X + N p^a + Y$$

Where N p is a proper noun (cf. list).

Top 8 (Conjunction) provides for the appearance of one N after another. This rule transforms the conjunction into a reduplication.

When two adjoining elements are the same <u>items</u>, reduplication occurs. Adj's, Adv's,  $Po_{12}$  have to be simplex items, (not complex Adj or Adv-phrases) to be reduplicated. This is indicated by the specification of  $adv_{123}$  and  $A_1$  etc. Except in the case of the verb, only the item preceding the suffix (x) is reduplicated.

Tob 17. Proper nouns are not reduplicated sentence-medially; they may, however, be reduplicated, when vocative or exclamatory.

### meanings:

avn avnu	each man by himself
avr avru ( alli )	among themselves
a· ya·	respectively
așt aștu	that much, each time; a little quantity, each time.
a•ga•ga	frequently, now and then
ha•gha•ge•	just as it <b>was</b>
all alli	here and there

#### Examples:

Descriptive Etymology: Reduplication 2: Proforms

Source: Reduplication 1

Top (26): 
$$X + Pr_1 \hat{z} \hat{x}^Pr_1 \hat{z} \hat{x} + Y = \Longrightarrow$$
.
$$X + Pr_1 \hat{x}^Pr_2 \hat{x} + Y$$

Tob (18): 
$$X + Pr_{\hat{1}} \begin{bmatrix} nt^h a \\ st \end{bmatrix}_{\hat{i}} \hat{Pr_{\hat{2}}} \begin{bmatrix} nt^h a \\ st \end{bmatrix}_{\hat{i}} + Z = \Longrightarrow$$

$$X + Pr_{\hat{1}} \begin{bmatrix} nt^h a \\ st \end{bmatrix}_{\hat{i}} \hat{Pr_{\hat{2}}} \begin{bmatrix} nt^h a \\ st \end{bmatrix}_{\hat{i}} + Z \Leftrightarrow \text{alla } \text{Neg}$$

Forms with  $Pr_1$  or  $Pr_2$  prefixed can have a modified reduplication with  $Pr_1\hat{\ }x\hat{\ }Pr_2\hat{\ }x$  as the resultant, with special meanings:

Tob 18 limits ant hint a 'just any kind' and astistu 'just any quantity', etc. to negative (alla, be.qa, ba.rdu) constructions.

Descriptive Etymology: Reduplicated Participles

Reduplication allows all Vb<sub>1</sub> verb forms to be reduplicated whole; by this Tob, when the past adjectival a and the present adverbial ta reduplicate, the first member may drop the suffixes. Of all the permissible V-affixes (a), only i.a, i, ta, ade enter into this reduplicative relation. All the other suffixes, but those listed, are deleted by this rule. The semantic developments are varied, as illustrated by the following examples:

## Participles:

Adjectival (past) ma.qma.qid ha.ge
as one goes on doing it
he.li.he.li.l sa.ka.ytu2
(I) had enough2 of saying (it) again
and again1
Adjectival (past) band band2 jana1
all2 the peoplel who came,2 whoever
came.

Adverbial (present) bar ta barta as it continues, as time passes (an 'idiom')

as he was coming (continuative)

Adverbial (past) bandbandu

having come again and again

Adverbial (negative) barde barde

as it continued not to come

Present: Ra·ma<sup>1</sup> barta·ne barta·ne<sup>2</sup> anta<sup>3</sup> ka·da<sup>4</sup>

He waited<sup>4</sup> (thinking) that<sup>3</sup> Ra·ma will probably come·<sup>2</sup>

Imperative: ho.gu ho.gu!
go! (Intensive)

Past: ho.dal.ho.da.ho.da / kone.tankalho.da

He went, went, went / till the endlhe-went

'He went and went, till he reached the very end.'

Descriptive Etymology: Echo-forms

Source: Reduplication 1

Top (26.1): 
$$X + C V \cdot Z CV - Z + Y ====\Rightarrow$$

Underlined optional forms are to be chosen or left out together.

This rule generates the echo-forms of Kannada. (As it assumes phonemic shapes, this rule should probably come after the lists, but it is placed here for continuity.)

If a form has CV or V initially, in the reduplicated form the second member may replace CV by gi; if V is long, by gi. Any item may be 'echoed' this way. The meaning is usually 'X and all that', 'X and such rubbish' depending on the context.

mane.gine. katgitti.ya. 2
You may build (etc.) 2 a house (etc.) 1

"Beware, don't you dare build houses and such rubbish": the contingent as well as the echo-forms re-inforces the cautionary tone.

These echo-forms are most often used with the 'cautionary

contingent', as above, or with the conditional verb (ra·ma·gi·ma¹ bandgindre² 'if even that² Rama-fellow¹ happens to come²'), or with the negative (bi·di·li¹ ha·ḍgi·ḍ² he·ļba·rdu³ 'In the street¹ you shouldn't sing³ songs and such·²'). But as they occur with other verb forms also (with intonation carrying the rest) we do not restrict them:

avin bidi, u.rgi.r² sutgitkond³ irta.ne⁴

Let him be¹: he will⁴ be wandering³ in some town or other.²

We have a few other echo-syllables as in .

ha·lumu·lu 'rubbish etc·'
cu·rupa·ru 'bits and pieces'

but these are restricted to these single (noun) forms almost. The contrasts among these different types may be indicated by three examples:

mane<sup>1</sup> ha•lha•l<sup>2</sup> suri•tittu<sup>3</sup>

mane ha•lgi•l² ma•dbe•da³

 $mane \cdot l^1 ha \cdot lu \cdot mu \cdot lu^2 biddittu^3$  In the house lay all

The house was dripping with desolation.

Don't you<sup>3</sup> spoil and ruin<sup>2</sup> the house<sup>1</sup> (cautionary)

In the house lay all sorts of rubbish 2

# Descriptive Etymology: Reduplication

'Semantic' Chart

A rough chart of some of the semantic functions of reduplication may be offered here:

	Pr <sub>123</sub> x	Adj	N	٧	Nu	Adv
Intensive		+	+	+	·.	+
Distributive	+	+ .	+		+	
Iterative/Continuative				+		
Collective	+					
Exclamatory			+			

Chapter Five

Lists

# Summary of Chapter Five: (Lists)

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#### Note on Lists

The following section consists of lists. As in other sections, references are given to the latest relevant rule or rules where the symbol (which is expanded in the list) occurs.

The transcription is morphophonemic.

Specific Tob's and Top's concerning the usage or the (ir)regularities of the listed items are given immediately after each list. Any low level morphophonemic rule that applies only to the listed items is also placed directly under the list. This classifies the morphophonemic information conveniently into particular and general rules, 'irregularities' and regularities, non-automatic and automatic. Obviously most of the morphologically conditioned alternations are given under the lists, and the automatic ones in a later section.

Semantic particulars, special usages and 'idioms' are also briefly noted here.

The order followed in the lists is, by and large, the order of their appearance in the kernel rules - except where the lists are large, like nouns and verbs, and where

some lists are incorporated in later lists, indicating 'class-cleavage' (Bloomfield), or 'grammatical homonymy' (Jespersen). For instance, Post-positions occur as post-positions, as adverbs, and as nouns. So they are listed finally only after the nouns.

Glosses as elsewhere are rough equivalents, and do not exhaust all possible senses of words.

The items listed are not by any means exhaustive, but numerous enough to suggest the range of phonemic shapes, semantic domains, etc; care has been taken, however, to have representatives of every morphophonemic class (so that any new item turned up may, hopefully, be assigned to one of the classes already set up).

Three dots (...) at the end of a list means that it is an open list.

List 1: Greetings

Source: K. 1, Tob 2

Gr ----> namaska·ra greetings
havd yes
illa not
alla no
sari - all right
ho·gb±t barti·ni goodbye ('I will
... go and come')

ye.nl viśe.sa2 'What'sl new?2', ye.nl sama.ca.ra2
'What'slthe news2?', u.tal a.yte2 'Is your meal over?'
(Did you have your lunch, etc?) are used frequently as greetings. All these can be derived by our earlier rules; they do not fit into the structure of S, as the Gr-forms do (cf. kernel 1).

As the glosses indicate, all the Gr-forms are not greetings, but all of them are forms complete in themselves uttered either as conversation-openers or closers, or as responses to other sentences, or as sentence-substitutes.

List la
Interjections
s: k l

I	>	ayyo•	pa•pa	Exclamation	n of pity, alas!
		$\mathtt{c}^{\mathtt{h}}\mathtt{i}$		11	strong disapproval
		che		11	rejection of an idea
		h <u>ũ</u> t <sup>h</sup> u		Yes	idea
		thu		Excl. of	disgust, ugh!
		ts <del>i</del>			indifference

This list of interjections is only a sample. They occur sentence-initially or-finally, and as free forms. Their intonation has special features (here underscribed), like their other phonological features. For instance in many dialects, the aspiration is quite stable in these forms though it may not be so in the other parts of the language. Like other forms, classes, these also can undergo re-duplication (p·119), with accompanying semantic shifts in either intensity of overtone or in denotation:

che che : violent rejection of an idea

hũ hũ : no, no (hữ 'yes')

And the reduplication may be iterated several-fold, and quite special infonations may appear with them. As in the last item, there are phonemes found in this subsystem found nowhere else in the language. What we phonemicise as /ts/ is a voiceless dental affricate with a suction-type of onset (a click?). Note also the final /±/, which occurs only medially everywhere else except in exclamations like these. Nasalization is

another example: hū., ayyo., chi, thu occur before NP frequently.

chi. kalla! 'You thief' (a favorite interjection-and-address of endearment to children; note semantic shift in chi).

thu. koli ka! 'You dirty fellow!

ayyo. pa.pa! 'Poor fellow, alas!' (pa.pa elsewhere means 'infant' or 'sin', the former being a pet-name or term of endearment).

The glosses are only approximate, and do not by any means exhaust the range of contexts these exclamations can occur in. The kinesic and intonational accompaniments of these 'affective' sub-systems are especially interesting and unexplored.

List 2: Clitics

Source: K. 1

Tob 1,2,3,4

Tob (20): alla o• X ====⇒ alla o•

Here the clitics are listed: alla o'l 'is it not so' e' (where o'l is chosen, it cannot be followed by anything, as shown by the Tob); ante 'it is said, it seems', the quotative; e'nu 'what'. The vocatives may follow these as indicated by the rule in the kernel l. o'l, e' eand a are question-markers, not to be confused with o'the indefinitizer (Top 17), and the emphatic e' and o' (Top 12), nor with e' and o' the vocatives (List 3). taine is an emphatic interrogative meaning something like 'surely,

only, etc?'

allavo. 1 Is is not so?

allave. 1 Is it not so?

allavo.<sup>2</sup> That is not so, my boy.

(Different intonation)

ad alla ta·ne You're sure it isn't so?'

Morphophonemics: Clitics, Emphatics, etc.

Source: List 2, Top 70

Tob (20.1):

Top (25,1): a. 
$$n^y ====\Rightarrow$$
 an  $y$  (y being the above vowels)

The clitics e., u., a., o. (L.2, Top 70), have allomorphs with n after vowels. If V is /i,e,u,o/ they will get lengthened by rule (Tob 59). In this case /a/ also gets lengthened, instead of being reduced (Mphcs, Tob 66).

List 3: Vocatives

Source: K. 1, Tob 1,2

kan doesn't go with the four clitics listed.

Other forms of address can be a ded, like mistar; but they are used only in somewhat special circumstances. For instance, mistar is used somewhat defiantly in challenging someone, or in asking strangers for a favour (with a change in intonation, naturally). In other dialects and communities, tayi (mother), akka (elfer sister), anna

(elder brother) and other kinship terms are used as vocative additions to sentences; but these and the last five in our list above, are only a special case of any noun being used vocatively, which is provided for by N. The four are mentioned explicitly, as they are frequent, and are specific terms of address. Note that magu has a morphophonemic u finally, as its allomorphs are different from de.varu: e.g., magu. ge 'to the child', de.vir ge 'to god'.

yenamma bande? Why, amma, did you come?

yenamma bande? Why, child, did you come? (any N)

avin banda sar He came, sire

ho.gti.rl e.nro.2 hudigra.?3 You are going, are you, boys?3

(The final a. is a variant of vocative a.)

List 4: Time Phrases

Source: K. 4,6

Tob 6,7

(The enclosed three items in the gloss refer to Pr<sub>1</sub>, 2 and 3 respectively.)

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These are time-words and phrases that agree with the tenses.

List 5: Negatives, Modals

Source: K. 4, Top 1,

Tob 15,16

Bahd 
$$---\rightarrow$$
 bhood can, may beok must

Tob (22): 
$$Vb\begin{bmatrix}t\\in\end{bmatrix}_i$$
 ^ la•r ====⇒  $Vb\begin{bmatrix}t\\in\end{bmatrix}_i$  ^ la•r^k

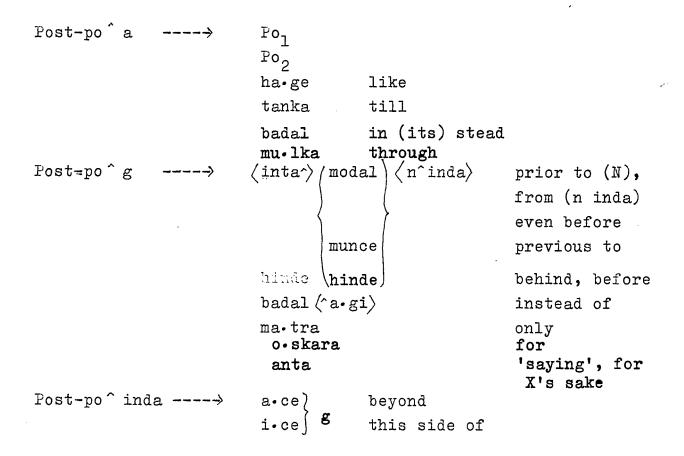
The three kinds of negatives are listed here; the Tob indicates that, of the three, la.r can take the person-number-gender endings of verbs, and agrees like other verbs with the subject of the sentence.

Top (26.1): 
$$\operatorname{ni\cdot n}_{i} + \operatorname{Vb\hat{ba\cdot rd}} ====\Rightarrow \operatorname{ni\cdot n}_{i} + \operatorname{Vb\hat{be\cdot da}}_{be\cdot di}_{i}$$

Negative imperatives for II person singular and plural are derived here.

List 6: Post-positions

Source: K. 8,10



These are postpositions that go with particular caseendings on the preceding noun (phrase), as indicated by the a, g, inda on the left hand side.

By and large, modaly, munce, do not go with locational words  $(N_{\mbox{loc}})$ , i.e., do not indicate space-relations; when used with  $N_{\mbox{loc}}$ , they mean something different:

yi. mane.gl modilu2 yille.nittu?<sup>5</sup>
Before2 this house1 (was built) what4 was5 here?<sup>3</sup>

As these words are used in this sense, also, no restrictions are placed on them.

a.ce and i.ce, usually space-words, are used to denote time-relations also:

hat varsdindi.ce.ge<sup>2</sup> Since<sup>2</sup> ten years<sup>1</sup>

The case-endings also (cf. chart, p. 18) are used similarly with both time-words and space-words.

Both hatra and mu·lka take on "instrumental" functions when the N's they are post-posed to are animates' (which we may tentatively list here as Nc, Nm, Nf, Nanimals, though words like sarka·ra 'government' also belong here). They have simple "locational" connotations ("near" and "through") with all nouns, not only with N<sub>loc</sub>. Thus a·fi·s mu·lka might mean "through the office-building" or "through the official channels etc." as the meaning (or class-membership) of a·fi·s shifts. But in avi·nl hatra² hat3 ru·pa·y4 ide5 "there are5 ten3 rupees4 with2 himl," hatra is "locational"; in avin

hatra hat ru·pa·y kodi sde "I caused the ten rupees to be given by him" it is "instrumental" (cf p·171, for Pol, Po2). If we were studying lexical collocations at greater depth than we are, we would explore the tendency of causative Vb's (V's) to take the hatra-type of adverbials. Non-causatives like isko 'get, borrow (from)' and kali 'learn (from)' also take these. In literary and written styles, much of this range of hatra and mu·lka would be covered by the ablative ending inda.

List 7: Pronominals

Source: K. 12, Top 10

Top (27): 
$$\Pr_{12}\begin{bmatrix} m \\ f \\ n \end{bmatrix}$$
 +  $X^k ===\Rightarrow$   $\begin{bmatrix} ta \cdot n \\ ta \cdot v_2 & ta \cdot v_2 \end{bmatrix}$  i ta  $ta \cdot v_2 & ta \cdot v_3 & ta \cdot v_4 & t$ 

Top (28): 
$$\Pr_{3} \begin{bmatrix} m \\ f \\ n \end{bmatrix}_{i} ====\Rightarrow ya \cdot r$$
 who which, what

List a) 
$$\Pr_{123} \begin{bmatrix} m \\ f \\ n \\ mf^pl \\ n^pl \end{bmatrix}$$
 ==== $\Rightarrow$   $\Pr_{123} \begin{bmatrix} v \pm n \\ v \pm l \\ d \\ v \pm r \\ v \end{bmatrix}$ 

The Tops give alternative forms for Pr 1, 2, and 3. Lists a) and b) list the occurrent pronominal person-gender-number endings, and the Pr-forms. Pr<sub>1</sub> is remote demonstrative, Pr<sub>2</sub> is proximate demonstrative, Pr<sub>3</sub> is interrogative. ta.nu and ta.vu<sub>2</sub> are singular and plural reflexives; their concordial relations are like those of the third person pronominals (Top 27).

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For the extra-plural ±gau, cf. page 150.

List 7: Pronominals

Source: L. 7 a,b

Top 10

Tob (23):

a) 
$$ya \cdot \begin{bmatrix} v \cdot f & f \\ d & ya \cdot vd \\ v \cdot f & ya \cdot vd \end{bmatrix}_{i} = = = \Rightarrow ya \cdot r$$

b) 
$$\begin{bmatrix} a \cdot \\ i \cdot \end{bmatrix}_{i} \quad X = \Longrightarrow \quad \begin{bmatrix} a \\ i \end{bmatrix}_{i} \quad X$$

The Tob's give rules that derive allomorphic forms.  $\Pr_1$  and  $\Pr_2$  lose the length on the vowels when affixed to any permissible item.  $\Pr_3$  does not take honorific  $\pm \text{glu}$ .

cf. a. (that) a du (that thing).

ge and ga do not follow the pattern of the other  $\Pr_{123}$  forms. The first gets an initial h and length on the vowels; the second, length on the vowels. ga has valafter  $\Pr_{123}$ , though it is optional after  $\Pr_1$  and  $\Pr_2$ .

List 8: Numerals

Source: K. 22

nu^hatt	<del>&gt;</del>	hatt	ten
		ippatt	twenty
		muvvatt	thirty
		nalavatt	forty
		ayvatt	fifty
		aravatt	sixty
		eppatt	seventy
		emb att	eighty
		tomb att	ninty
nu	<del>&gt;</del>	ond	one
		erad	two
		mu•r	three
		na• (la k) k	four
		ayd	five
		a•r	six
		e•]	seven
		ent	eight
		omb att	nine

## Tob (24):

Tob (24):

Only the more regular allomorphs of hattu (ten) and the numerals are given by the Tob's; where each form seemed to require a rule, as in nu hattu, they are simply listed as primes, though further analysis is possible.

'one', 'two'

Tob (25):

Source: K. 22, Tob 8

a) ond 
$$+ X^k + Y = \Rightarrow$$
 ond  $k + X^k + Y$   
Tob (2eriq);

ond 
$$m \in \mathbb{R} \times \mathbb{R} \times \mathbb{R} = 0$$
 ond  $m \in \mathbb{R} \times \mathbb$ 

$$\begin{array}{ccc}
\operatorname{ond}^{\uparrow} \left[ \begin{array}{ccc} m & & & & & & \\
f & & & & & \\
\operatorname{mf}^{\uparrow} \operatorname{pl} \right]_{i} & & & \operatorname{obb}_{\stackrel{1}{=}} r \\
\end{array} \right]_{i}$$

Top (29): 
$$obbir + N^mf^pl + X ==== ob + N^mf^pl + X$$

Kernel 22, expanding numerals allows vondu and yeridu to take certain person-number suffixes. But via K. 11, K. 2 requires for them also to have a concordial relation with B k. The above two rules adjust the concordial relations:
b) vondu and yeridu are neuter singular and plural, c) gives the concords for m, f, and their plurals.

An X and not the specific B of K. 2 is used here because,

we wish to include an Adjective-Noun concord (Pabe25a) between vondu and veriduand the nouns they modify. These are the only two adjectives where such a concord is necessary. In the case of dvondulmfhplotheaplurals have bonorific; where vobru modifies a following N^mf^pl, it may drop the ru. (Top 16).

vond bantu one came (n. sg)
yerid bandvu two came (pl)

The possibility of yerid bantu (sg) is a special instance of the optional plurals for neuters (cf. Top 16).

yibbir bandidru Two people had come (mf pl)

vobba bandidda One man had come (ond m + Vb m)

Concord between vondu, yeriqu and the nouns they modify is clearly seen in the masculines and feminines, as the neuters tend to drop the plural endings:

vob manişya a man vob ru doddavru an elder (hon. pl) ibbir manişru two men (pl)

List 10: Tob 26: laksa.

Ordinals

Ordinals

Source: K. 12,22, L. 7

Where X is any permissible numeral in K. 22.

Top (30):

Tob 26 requires that laksa, sa·vira, and nu·ru (million, thousand, hundred) should have a genitive suffix when followed by a numeral.

hat laksid mu·r sa·vra Ten million and three thousand sa·virdentu One thousand and eight

laksa, sa·vira and such other large numbers look unusual with ne (the ordinalizing suffix) on them, though they are acceptable; some people would replace ne by something like (laksa) nambarna 'of the number (million)'.

Top 30 b deals specifically with fraction-citations, where ne is used on the denominator: nu·rne· vondu (one part in a hundred, one one hundredth, one-hundredths). Often ne is replaced by a'al ( a'al = genitive + locative suffixes) equivalent in meaning to Eng· 'in a million, in a thousand'.

List ll: Indefinite Quantifiers

Source: K. 12, Top 1,

Tob 8,9

$$\begin{bmatrix}
Nu_1 \\
ella
\end{bmatrix}_{i} 
\xrightarrow{\text{n^pl}} 
\xrightarrow{\text{----}} 
\begin{bmatrix}
halav \\
kelav
\end{bmatrix}_{i} 
\xrightarrow{\text{a few}} 
\end{bmatrix}_{i}$$

These are indefinite quantifiers. Their epicene plurals are as below; their shape is unchanged for the neuter pl. s.

List 12: Adverbs

Source: K. 9,13

adv <sub>1</sub>	<b></b> →	bahila innu• tumba vipri•ta	much, very still (emphatics) a lot, very excessive
adv <sub>2</sub>	<del>&gt;</del>	solpa konca	a little a bit
adv <sub>3</sub>	»	be•ga mellage adv½ ^ a•gi Wes taṇṇ±ge Po l	fast slowly adjectives nominalized \alpha a · gi descriptive nouns, etc · \square coolly Post-positions like volage 'inside'
Imit	<del></del> >	Imit 1 Imit 2	(Source: K. 8)
Imit	<del></del> >	gad <b>i</b> bada b <sup>h</sup> agab <sup>h</sup> aga	made noisy haste of burning
Imit <sub>2</sub>	<b></b> →	p <sup>h</sup> akk t <sup>h</sup> aţţ p <sup>h</sup> aţţ g <sup>h</sup> oļļ	suddenly, etc. all at once quickly, etc. of laughter, guffaws, etc.

Imitative forms that act as adverbs with the addition of anta are divided into reduplicative and single forms, the former alone being capable of being verbalized by the addition of s (cf. Derivation 2, p. 181).

List 13: Adjectives

Source: K. 13

ad	>	cikka	small, young
		dođđa	big, adult
		haļe	old
		hosa	new
		puţţa	tiny
		saņņa	little, small
		voļļe	good
		$^{ m N}$ col	Nouns of color

Adjectives are listed here. Here it may be noted that some of the most common adjectivals are not mono-morphemic, but adjectival participles of verbs like ketta 'that which is spoiled, bad'. Adjectives are distinguished from Ndes or descriptive nouns, which overlap with them in distribution, by the fact that adjectives may take kr(K·k 3,11) directly and get nominalized ('become predicative').

yidu cikdu This is small (cikkadu = cikka a du)

yidu cik mane This is a small house

List 14: Nouns

Source: K. 20

$$\begin{bmatrix}
N^{n}_{3} \\
N^{f}_{3} \\
N^{n}
\end{bmatrix}$$

$$\begin{bmatrix}
N^{m}_{3} \\
N^{f}_{3} \\
N^{n}
\end{bmatrix}$$

$$\begin{bmatrix}
N^{m}_{3} \\
N^{n}
\end{bmatrix}$$

$$\begin{bmatrix}
N^{f}_{2} \\
N^{m}_{2}
\end{bmatrix}$$
 and  $\begin{bmatrix}
N^{f}_{2} \\
N^{m}_{2}
\end{bmatrix}$  and  $\begin{bmatrix}
N^{f}_{2} \\
N^{m}_{2}
\end{bmatrix}$ 

Top (31): No 
$$====\Rightarrow$$
 No  $\{g\}$ 

The different kinds of plural allomorphs that are selected by the different noun-classes are detailed here iglu, which usually goes with neuter nouns like mara (tree), also goes with a small number of masc and fem nouns, ajjiglu (grand-mothers), guruglu (the gurus); the usual plural form for masc and fem nouns is ru as in ra jru (the kings), ra ni ru (the queens), but they can take a further plural iglu, as an intensifier of the plurality; this is especially so when ru can be honorific and not a quantifying plural, as in ra jru (which may mean either one ra ja respectfully

referred to, or many ra.jas). This sort of contrast is neutralized in the pronominals sometimes, where iglu is added to an already plural form to intensify not the plurality but the respectfulness:

ni•nu	(you, sg)	ni•vu	(you, pl or honorific)	ni•v <del>i</del> gļu (you, pl)
ni•nu	(you, sg)	ta•vu	(you, honorific)	ta·viglu (you, hon· intensified)
avnu	(he)	avru	(pl, or honorific)	avr <del>i</del> gļu (pl inten- sified)

Cf. lists of pronominals and their plurals (L. 7).

andru is generally taken by kinship terms, like ganda (husband), though not all kinship terms take it (tandeglu, fathers). Some of the nouns are in more than one class, as there is considerable free variation in the smaller classes: ajji.ru (grandmothers), also ajjiglu.

No is a small class of nouns that are always plural; they may optionally take an honorific iglu.

List 15: Nouns

Source: K. 20

Nc ----→ da·var god
da·kţar doctor
jana ≰gl> people
la·yɨr lawyer
tande·ta·yi parents

Some nouns take the mf'pl concord only; morphological marking of the plural ( \frac{1}{2} \text{glu which is usually the n^pl) is optional with them. da.ktru, la.yru, etc. are English loans, 'doctor', 'lawyer', etc, that end with ru in Kannada (as Ka. adds -u to consonant finals, cf. in Morphophonemics). As ru also happens to be the Ka. mf pl ending, these words are always in the plural. The prestige of these professions also add to the respectful use of plurals. When someone wishes to be misrespectful re. lawyers, for instance, they add -i, 'la.yri'. The non-English equivalents vaydya and vaki.la admit of singulars and have slightly pejorative overtones. de.vru (god) may be either singular or plural, but when singular is always masc, god being made in man's image, not woman's; specific gods or goddesses like Krişna or Lakşmi are of course masc or sing. de.vru is placed in the masc. list also.

List 16: Nouns: Masculine

and Feminine

Source: L. 14

N^fl ----> N^f des feminine descriptives
N^fp^dim Names of women

N^fd Derived feminines

heng<del>i</del>s woman ra•ni queen

sose daughter-in-law

...

N^m<sub>l</sub> ----> N^m des Masculine descriptives
N^mp^dim Names of men diminutives

N^md Derived masculines

de·var god

gandis man, male

ra•ja king
rayta farmer
sulta•na sultan

vaydya doctor, esp. 'native'

vaki·la advocate, lawyer

• • •

X^dim^pl ---- X^dim^#gl Any personal diminutive takes #gl as plural

List 17: Proper Nouns

Source: List 16

Many names end in amma, anna, etc. - the four kinship terms above noted being most frequent. These are also used after names for respect or affection (by servants, acquaintances, etc.). mu.rţi, ra.v, ayyɨr, na.yɨdu, śeţţi and other caste-names may be added to the name-endings - but they do not have the generality nor the suffixal character of these four.

List 18: Some Name-endings

Source: List 17

no•r being honorific plural, X being all that precedes amma, etc• in List 17 and plurals for names ending in -a and -i; Z being all that precedes them•

Tob (27):

a) 
$$Z^{O}YX ====\Rightarrow ZX$$
 (X being any permissible suffix)

b) 
$$Z^{O}Y \dim ==== \Rightarrow Z$$
 (Source: List 16)

Allomorphs for names before amma, etc.

Special diminutives for Krişna, Lakşmi: kiţţu, laccu ~lacci•

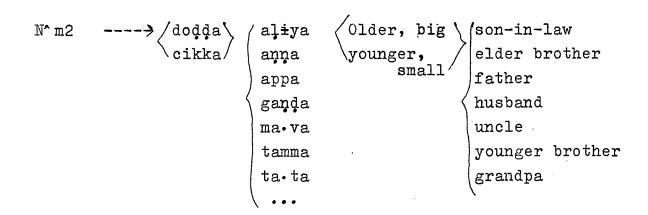
List 19: Fem. Nouns (Kinship)

Source: List 14

'Older' and 'younger' mother mean mother's older and younger sisters. With regard to elder sisters (akka) dodda and cikka mean the older and the younger of two elder sisters, respectively; similarly with the other words.

List 20: Masc. Nouns (Kinship)

Source: List 14



'Older' and 'younger' father refer to father's older and younger brothers.

'Older' and 'younger' husbands are retained here though the culture is not polyandrous: they can mean 'big' or 'small' husband.

With the other words, 'older' and 'younger' mean older and younger of a pair of uncles, sons-in-law, etc. These are regularly distinguished in a family.

List 21: Nouns: Feminine

and Masculine

Source: List 14

 $N^m3$ king, also a community aras da•nsarr dancer religious teacher guru swa•mi master, religious teacher (kr±şna)/^ swa•mi proper names maga son  $N^f3$ ajji grandma daughter magil me•damm madam, school-mistress nurse nars mother ta•yi

gļu, which is the regular plural ending for neuters is used with some of the masculine and feminine, and regularly with all English-borrowed N^m's and N^f's like narsu, da.nsarru... In fact, igļu is the most productive of the plural allomorphs. maga and magilu (and magu, child) have a special plural, makļu.

maga \ magil ===> makkil

Tob(27.1)

guru is writtenmorphophonemically with an u finally because like hasu and magu (cf. List 3) before junctures and suffixes like a (genitive) the u is lengthened.

List 22: Neuter (Mass)

Nouns

Source: List 14, Tob 9

akki rice anna cooked rice belli silver benne butter cinna gold milk ha.l dirt kasa dirt, filth koļe majjige buttermilk ni•r water

In dialects like the North Karnatak one, haelu 'milk', etc. can take plurals - anothera case of other general and hierarchyrof rules not only being a descriptive device but also of dialect description. If dialect features are ranked according to productiveness and paradigmatic regularity, rules of higher and lower generality would automatically assign regular and irregular forms to different dialects.

List 23: Neuter Nouns

Source: K. 20

N^n<sub>1</sub> ----- N<sub>Abst</sub>

Abstractions

 $^{
m N}$ Body

Body Parts

 $^{
m N}_{
m Places}$ 

Places

 $^{
m N}_{
m Me}$ 

Measures

 ${\rm N_{Things}}$ 

Things

The neuter nouns N^n<sub>1</sub> are arbitrarily divided into rough and ready domains just to guide the reader in looking for any particular word. No restrictions are meant (except on Ndes, Po<sub>12</sub>, N<sub>col</sub>, N<sub>co</sub>, N<sub>me</sub>, as indicated by the notes and Top's), as idiomatic usage seems to break all restrictions so placed on the collocation of verbs and nouns, say the nouns of location with verbs of motion. However, intensive inquiry into any semantic classes that may obtain, may reveal patterns not visible at this stage.

nenne<sup>1</sup> maysu·rhinda<sup>3</sup> na·n<sup>4</sup> bande<sup>5</sup> yesterday<sup>1</sup> I<sup>4</sup> came<sup>5</sup> from<sup>3</sup> Mysore.<sup>2</sup>

na.nu<sup>1</sup> raylhinda<sup>3</sup> bande<sup>4</sup>

I<sup>1</sup> came<sup>4</sup> from<sup>3</sup> the train<sup>2</sup> ('train' will have to be included under locatives)

maysu.rhinda<sup>2</sup> magu<sup>3</sup> altittu<sup>4</sup>

From<sup>2</sup> Mysore<sup>1</sup> the child<sup>3</sup> was weeping.<sup>4</sup>

('From Mysore on, the child kept weeping.')

(alu is not a verb of motion)

Similarly it was not possible to classify nouns according to the case-endings they take:

maysu.rhinda<sup>2</sup> bande<sup>3</sup>
I came<sup>3</sup> from<sup>2</sup> Mysore.<sup>1</sup>

Mardinda<sup>2</sup> kurci<sup>3</sup> ma·ddd<sup>4</sup>
I made<sup>4</sup> a chair<sup>3</sup> out of<sup>2</sup> wood<sup>1</sup>

yidu<sup>1</sup> manişrinda<sup>3</sup> a·go.<sup>4</sup> kelsa<sup>5</sup> alla<sup>6</sup>
This<sup>1</sup> is not<sup>6</sup> a job<sup>5</sup> that can be done<sup>4</sup> by <sup>3</sup>men<sup>2</sup>

kodli yinda mara kadde 
I felled the tree with an axe.

If the ablative inda is taken as criterial, maysur' Mysore, a place', mara 'wood', manisya 'man, mortal', kodli 'axe' have all to be placed under one class; they would form a curious class, because this would be the only criterion that would bring this motley group together; they would correlate with no other classification. A semantic classification or characterisation is probably useful in teaching, but it cannot be based on any known structural cirteria: i.e., that the ablative inda is taken by location-nouns with verbs of motion frequently, by nouns descriptive of materials like wood, iron, etc, by instruments like axe, etc. This sort of description is summarised in an earlier chart (p. 18, note after K. 10).

List 24: Abstract Nouns

Source: List 23

 $N_{Abs}$  ----> belak light

ma·t speech, word

caritre history

dukk<sup>h</sup>a sorrow

dve•şa hate

d<sup>h</sup>ayrya courage

ha•sya humor

katle darkness

kelasa work

kole murder

koļe dirt

lekk<sup>h</sup>a mathematics

maylge uncleanliness

ple•g plague

punya ment

pa•pa sin

ro•ga disease

sankaţa distress

svab<sup>h</sup>a•va nature

sande•ha doubt

tayfa.yd typhoid

udda length

vya·karana grammar

yettara height

Ndes, Descriptive Nouns (abstract)

Nabs-d Derived abstract nouns

List 25: Descriptive Nouns

Source: L. 16,24

Tob (28): 
$$Ndes_1^k + X^n = === Ndes_1 + X^k (K. 2,11)$$

Ndes, ----> curik sharpness

cu·p sharpness (as of a knife)

dappa fatness

hecc much

kadime less

kaşţa difficulty

koļe dirt

le•s better

sari right

sulabha easy, ease

tapp wrong

va·si better

N<sub>col</sub> color-words

N^f-des ----→ Nm-des^i

 $N^m-des \longrightarrow budvant^0a$  smart fellow

dadd<sup>o</sup>a dull fellow

ja•n°a intelligent fellow

koļik<sup>o</sup>a dirty fellow

. . .

Ndes are descriptive nouns. This class is set apart because they act like adj's in entering into comparative constructions (Top 6):

avinginta yivin kolika
This fellow is a dirtier fellow than that.

Nm-des are masculine nouns that are descriptive (i.e. can enter into the above construction), Nf-des are feminine nouns, derived from Nm-des by affixing i.

Ncol are nouns of color; they behave like Ndes in the above construction, but like adjectives and nouns elsewhere.

Ndes, nouns can occur with any gender or number (Tob 28).

avirginta ivir dappa

These fellows are fatter than those.

Source: List 23  $^{\rm N}{\rm Body}$ ba yi mouth (big) finger (big finger=thumb) (heb) beral benn back ede chest gantil throat hall tooth hotte stomach hokkil navel jathara viscera <u>karil</u> intestines kank#I arm-pit kann еуе flat of monaka'lu=knes front of ·mun angayyi=palm leg back of monakayyi=elbow hin hand joint of katt neck ķu dil hair kenne cheek ķivi ear muk<sup>h</sup>a ~ face mu g nose mu'le bone mole breast mayyi poda na'lige tongue forehead netti

Body Parts

List 26:

Subscript v is a morphophoneme (cf. Tob 37)
Body parts enter into avvery large number of 'idiomatic' collocations. Here is a sample list of common ones (the resemblance with some of the English collocations may also be noted):

ben¹ taţţ±da²	He slapped <sup>2</sup> X's back <sup>1</sup>
	'He encouraged X'
kar <del>i</del> ļ <sup>l</sup> kalaktu <sup>2</sup>	(His) intestine was disturbed 2
	'He was moved deeply'
kan¹ kempa•ytu²	(His) eye <sup>l</sup> became red <sup>2</sup>
	'He grew angry, jealous, etc.'
ka•l <sup>1</sup> ker <del>i</del> da <sup>2</sup>	He scratched <sup>2</sup> his leg <sup>1</sup>
	'He spoiled for a fight'
kay <sup>1</sup> koţţa <sup>2</sup>	He gave <sup>2</sup> his hand <sup>1</sup>
	'He gave the slip'
kivi <sup>l</sup> ķoţţa <sup>2</sup>	He gave <sup>1</sup> ear <sup>2</sup>
•	'He paid attention'
muk <sup>h</sup> a <sup>l</sup> mur <del>i</del> da <sup>2</sup>	He broke <sup>2</sup> X's face <sup>1</sup>
	'He insulted X'

may<sup>1</sup> mur<del>i</del>da<sup>2</sup> He broke<sup>2</sup>his body<sup>1</sup>

'He stretched his limbs'

(after sleep, etc.)

nin tale! Your head!

'an exclamation of impatience

with someone'

tode tattida 'He slapped his thigh'

(as in Indian wrestling)

'He got ready for a fight

tuţi¹ kackonda² He bit² his lip¹

He realized his error

List 27: Location Nouns

Source: List 23

 $N_{Loc}$  ----> amer(i)ka Amerika

afi's office

a'ka'sa sky

betta hill

ba'vi well

bhu mi earth

bi'di street

bila hole

caraka square

carc church

de'sa land

e sya Asia

gu đ nest

gudi temple

gudisl hut

halla pit

ha'sana Hasan

ja ga place

kayla'sa (Siva's) Heaven

kola tank

ka'le'j college

laybri library

mane house

maysu r Mysore

ma'di ypstairs

ma rkett market

nela floor

nadi river

o'ni lake

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$^{ m N}_{ m Loc}$	<b></b> →	pa•ta•ļa	Netherworld
(cont)		prapanca	world
		ru•m	room
		raste	road
	aggin , in minute or discourage	samudra	sea
		sandi	alley
		sku•l	school
		st <sup>h</sup> aļa	place
		svarga	Heaven
		tu•t	hole
		to•ta	garden
		u•r	town
		yu·ro·p	Europe
		Po 1	
		Po 2	

List 28: Post-positions

Source: List 27, K. 8

The locative post-positional nouns Po 1 do not take the locative case suffix al. When the dative suffix g is added to Po ge, we get Po kke.

That the latter is dative and not just a free variant of volage, etc. is shown by the ungrammaticalness of avin volakk ida.ne; the grammatical form is avin volag ida.ne 'He' is inside, or avin volak ho.da 'He' went in' (= He went to-in).

Top (33): Po 2 
$$\{g\}$$
 ==== $\Rightarrow$  Po 2  $\{al\}$ 

With the non-locatives the dative and the locative caseendings are optional. ascieg hoegidane

He has gone out (though idiomatically, the first means with with regard to children, that the child has answered a major call of nature.)

outside hora ' keļa under, below oļa inside me.1°e on, above beyond, out there a•ce on this side i∙ce together with jate near (cf note on p.137) hatra

. . .

Names of Things List 29: Source:

List 23

 ${\rm N_{Things}}$ medicine av±sti

> angi shirt

ble d blædæ

banna color

batte cloth, clothes

ba'gal door

bukk book

be'r root

bombe doll

bu dis boots

capli sandals

ca'k pen-knife

danta ivory

do'se pan-cake

dimb pillow

ele leaf

ga di cart

go de wall

ge t gate

halva a sweet dish

ha sge bed

ha°Įe page

hann fruit

hụ v flower

idli steamed cake

itge brick

jile'bi sweet dish

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kiţiki window

ka r car  $N_{ extbf{Things}}$ ko t coat

> kođe umbrella

kombe branch

katti knife

ka gada paper

kurci chair

la la horseshoe

ma tre pill

mane house

mara tree

me j table

manca cot

naksatra star

ne gil plough

pils pills

penn pen

pinn pin

pustaka book

pa nika sweet drink

rayl train

se'r the measuring vessel

se'tve bridge

saykall bicycle

tam(b)ge vessel

te'r god's chariot

tindi snacks

 $^{
m N}$ col Nouns of color

N<sub>co</sub> Counter nouns

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List 30: Names of Color

Source: List 29

Tob (30): 
$$NP^k + Ncol^Pr_1^k ==== NP^n + Ncol^n$$

Nouns of color, though normally neuter nouns, may be used with other nouns also, singular as well as plural, like Ndes (cf. List 25).

a. hudigil bahila kappu2 That girl (is) very dark.2

But if nominalized like other adjectives, it is restricted to neuters only.

As a noun, of course, it may be nominalized after it has taken a genitive:

avnu<sup>1</sup> bili·vnu<sup>2</sup>
He<sup>1</sup> (is) a white man<sup>2</sup>
('a man of white color'), like
mane·vnu 'man of the house'.

We have not eliminated adjectives before Ncol's; nor Ncol's as adjectives before Ncol's as nouns:

The former would mean 'a whitish green', the latter,

'a small patch of green' in certain contexts.

List 31: Counter nouns

Source: List 30

All these words are counters as well as nouns descriptive of objects like spoons and carts in their own right.

Names of all sorts of containers like loots 'cup', tabbu 'tub', ruom', etco can obviously be included, as easily as carriages of various sorts, like treynu 'train'.

Names of Animals List 32:

Source: List 29

crow

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Nani ·	<b></b> →	/a•ne	elephant
		a•d	goat
		bekk9	cat
		cigita	flea
		cirte	leopard
		ciţţe	butterfly
		emme	buffalo
		gubbacci	sparrow
		gedl	termite
	hente godda	big ant (Hente godda= chameleon)	
	gand	gu•be m	ari owl
		has	cow
	kuli	tiger	
			kinds of snake
		ke•re	tank
		go•di na•g <del>i</del> r	ha.vu yellow cobra snake
		has <b>ir</b>	green
		heb	big (python)
		hul	worm
		halli	lizard
		ir <del>i</del> ve	ant
		jig <del>i</del> ņe	leech
		\ kappe	frog

kogle	koil, a songbird
kokre	stork, crane
kudire	horse
kuri	sheep
mos <del>i</del> ļe	crocodile
noņa	fly
na•yi	dog
o•tikaeta	chameleon
pa·rva·ļa	pigeon
simha	lion
tig <del>i</del> ņe	bug

Nani are nouns that are names of animals. The sex is shown by the addition of gandu (male) and hennu (female); mari (the young of the animal) is optionally added; when it is added, the phrase means 'the young of...'.

Some animal names like a duetc have special names for the males. They are given by the last Tob.

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List 33: Units of

Measurement

Source:

List 31

### Length

 $ext{N}_{ ext{Me}} ext{ } ext{----} ext{ } ext{adi} ext{ } ext{foot}$ 

a'l 'fathom' 'man's height'

angila inch

farlaing furlong

gaja yard

ge n span

inc inch

ma'r 'two arms' length'

mola cubit

mayli mile

## Weight

ma na a mound

pa'v a small measure

pance'r five 'seers'

/adi' \ half

ava / quarter

# Quantity

kolaga 'bushel'

pa'v 1/4 'seer'

se'r 'seer'

mora 'a winnowing fan'

'seer'

N<sub>Me</sub> ---->

# Counts

agil (anna)

'a grain (of cooked rice)'

guţik

'a drink (of water)'

kaţţ

'a bundle'

kavaĮge

'a sheaf' (of betel)

Descriptive Etymology:
Derivation: List and order
of Transformative Affixes

Source: List 14,23, Chapter 4

#### Derivation:

1. Nabs 
$$^{\circ}$$
 d  $\xrightarrow{----}$   $\left\langle \begin{array}{c} \text{Nabs } -\text{S}_{1} \\ \text{Nabs } -\text{S}_{2} \\ \text{Na } 1234 \end{array} \right\rangle$ 

$$\left\langle \begin{array}{c} \text{Na } 1234 \\ \text{V}_{R} \\ \text{Vd}^{\circ} \text{ike} \end{array} \right\rangle$$

2. 
$$V_d$$

$$\begin{array}{ccc}
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3. N 
$$^{\circ}f_{d}$$
  $\xrightarrow{----}$  {N mf}  $^{\circ}i$  Derived feminines

5. a) ha·va·dig°a a ha·va·dig°a ha·va·dig°a hu·va·dig°a Nal ig°a Nal ig°a Nal ig°a Nal ig°a Suffix

These rules offer lists and orders of transformative suffixesmainly noun-making suffixes.

As the rules are self-explanatory, and as the lists that follow have notes appended, we add no general note here.

This part can be placed in the Descriptive Etymology

Section, but is placed here with the lists for convenience.

List 34: Derived Abstract

Nouns

Source: Derivation 1

defiance

These two lists of Sanskritic forms are set up because they are both verbalized by the addition of su, very productively: yocone'su -> yo.csu 'to think'. O is a morphophoneme that indicates deletion of the following sequence before any X; indicates the deletion of under the same conditions: namas kar oa namas ar u 'to salute, offer greetings'.

Intransitives in List 34 Cf. V<sub>tl</sub>-list

Tob (33):  $X + NP^an + V I^s^k ====\Rightarrow X + V^is^k$ 

The verbs marked I in the Nabs-stem do not take objects.

This rule is placed here for convenient reference, though it belongs with the verbs.

List 35

Source: Derivation 1,4

Tob (34): kannada^iga^itti ----> kannaditi
a Kannada-speaking
woman

These neuter nouns are made into masculine agentives by the affixation of 'iga, into feminines by the further addition of itti, except in the case kannada'iga.

e·g· ga·ņ±ga oil-man ga·ņ±gitti oil-woman

With regard to ke diga being feminized into ke digitti, it sounds plausible but the writer hasn't heard it; as it is plausible, it is left in, as elsewhere.

List 36

Source: Derivation 4

Na2 consists mostly of Sanskrit words that are rendered masc agentives by the addition of vanta. It may be noted here that there are several alternative ways of doing this; a word like sakti will therefore appear in this as well as in the Nma list, yielding sakta as well as saktivanta.

List 37

Source: Derivation 4,6

The abstract nouns take the agentive suffix ga.ra.

Note that 'bengle' tries the agentive suffice a company of the constant.

List 38

Source: Derivation 7

C		, ,0. \ .	(4)	
Na5	<del>&gt;</del>	beļ <sup>o</sup> i \^e kar <sup>o</sup> i \	(to grow)	produce, crop
		,	(to call)	call, invitation
		hor	(to bear)	burden
		koļ <sup>o</sup> i )	(to rot)	dirt
		bel <sup>o</sup> i	(to grow)	growth
		mer <sup>o</sup> i \	(to display)	procession
		bar <sup>o</sup> i (	(to write)	writing,
		,		composition
		tin <sup>o</sup> n) ^±su	(to eat)	eatable, snack
		tin <sup>o</sup> n ^±su mun <sup>o</sup> i bel <sup>o</sup> i	(to be angry)	anger
		bel <sup>o</sup> i (	(to grow)	produce, crop
		kun <sup>0</sup> i <b>\</b> ^±ta	(to dance)	dance
		kuņ <sup>0</sup> i \ ^±ta kaḍ <sup>0</sup> i \	(to itch)	
		bad <sup>o</sup> i (	(to beat)	
		hod <sup>o</sup> i)	(to beat)	blows
			(00 0000)	V V
		gel <sup>0</sup> i \^÷v∵	(to win)	happiness,
	y	gel <sup>o</sup> i \^±v:	(00 Will)	liveliness
		o mar i	(to forget)	
		sa. oyi	(to die)	death
		ka. oyi	(to die)	
		ki•	(to suppurate)	
		bid )	(to leave)	leisure
		0 \ ^ `		
		nad <sup>o</sup> i \ ^ \te al <sup>o</sup> i \	(to behave)	behaviour
		aļ i	(to measure)	a measure
			•	
		nen <sup>o</sup> i} ^ ±pu hoļ <sup>o</sup> i	(to remember)	memory
		hoļ <sup>o</sup> i	(to shine)	sheen
		•		

Na5 is a class of abstract nouns that are formed by the affixation of several affixes (e, ivange, etc.) to verbs.

O is a morphophoneme that will delete the phonemes that follow it, before any X. The meanings of the verbs are given in parenthesis. The Tob yields the allomorphs.

In all these rules, only those Sanskrit forms and morphophonemics that are productive in Kannada are treated. The large number of learned words used in certain discourses or contexts like pavro.hitya (from puro.hita 'priest') 'the profession of being a priest', or da.śarathi (from the name Dasaratha) 'son of Dasaratha' are not taken into account; but the verbalization of yo.cne, etc. by the addition of su is.

List 39

Source: Derivation

Such nouns as the above are rendered masculine agentive nouns by the addition of a. bo.l^a is a bald man. The word for a deaf man is derived from kivi, but by the addition of da.

Morphophonemics: Cases:

Dative

Source: K. 10, 18, N-lists

Tob (36):

1. 
$$N^n^a$$
g  $\longrightarrow$   $N^n^g$ 

2. a) 
$$\begin{bmatrix}
N^n-a \\
Pr_{123} \\
e \cdot n
\end{bmatrix}_{i} ^{g} \xrightarrow{----}
\begin{bmatrix}
N^n-a \\
Pr_{123} \\
e \cdot n
\end{bmatrix}_{i} ^{hk} K. ll, l2$$
List 7

1. g is the dative suffix. Neuter nouns do not take a
the genitive before their datives.

2.a) N^n's with the a-endings (N n-a), neuter interrogative ye.n, and neuter  $Pr_{123}$ 's take kk.

b) ye.n has an allomorph ya.ta before kk.

Morphophonemics: Genitive

Source: K. 10, N-Lists

$$\begin{bmatrix}
N^{f-a} \\
N^{n-a}
\end{bmatrix}^{a} = === \\
N^{f^{a}} \\
N^{n-ad} \\
Nu \\
Pr_{123}^{n} \\
Pr_{123}^{n} \\
N^{n-c}
\end{bmatrix}^{a} = === \\
N^{f^{a}} \\
N^{n-ad} \\
Nu \\
Pr_{123}^{n} \\
Pr_{123}^{n} \\
N^{n-c^{n-c}}
\end{bmatrix}^{a} Top 10$$

^a is the genitive suffix.

- 1) All feminine nouns ending in -a, and all masculine nouns, take the allomorph an. E.g., ra.man 'Rama's', si.tan 'Si.ta's'.
- 2) All neuter nouns ending in -a take d as in marad 'of the tree'.
- 3) All numerals and neuter  $Pr_{123}$  and  $Pr_{123}$  stu, take ar: adar 'its'.
- 4) All neuter N's with consonant endings take in: ko·lin of the stick.

All the rest of the allomorphs are derived by phonological rules:

mane ^ a ----> mane. 'of the house'

(By later phonological rule, Tob 59: :

both si·ta· and si·tan are possible·)

Morphophonemics: Locative

Source: K. 10, N-Lists

Tob (36):

4. 
$$\overline{N}_{x} - \begin{bmatrix} i \\ e \end{bmatrix}$$
 ^al ====  $N_{x} - \begin{bmatrix} i \\ e \end{bmatrix}$  ^1

All nouns  $(N_x)$  ending in the front vowels i and e take the locative allomorph ^1. As elsewhere the front vowels are lengthened before any suffix.

mane·l<sup>1</sup> ida·ne<sup>2</sup> He is<sup>2</sup> at home<sup>1</sup>
halli·l<sup>1</sup> male<sup>2</sup>bittu<sup>3</sup> In the village<sup>1</sup> rain<sup>2</sup> fell<sup>3</sup>
('it rained in the village')

Morphophonemics: Cases

Source: K. 3,10

This rule gives the pre-junctural forms of lal (locative), gakk (dative allomorphs), an (accusatives). a (genitive) never occurs finally without a nominalizing gender-marker, except probably in the rare form of the retort-question, 'ya.ra', 'Whose, did you say?' In the absence of any intensive intonation-studies of Kannada (either here or elsewhere) the junctures here written in have to be taken for granted. In our examples we have used only / and #.

Morphophonemics: Genitives of I and II person pronouns

Source: K. 11,14,16

7.

The first, second and reflexive personal pronouns form a pattern in the genitive as shown above. When the dative g is added to the genitive forms, one of the nasals is reduced, as shown by the second rule.

Morphophonemics:

Nouns and Compounds
Sources: Desr. Etym. Compound
N lists 26, 27, 28 etc
List 34

Tob (37) a 
$$X^{\hat{}}_{\hat{k}}$$
 ====> X g

b  $X_{\hat{c}}$  Y^Z ====> XYZ

Subscripted, means that the phoneme /k/ will get voiced when a morpheme is prefixed. Subscripted; means that the vowel will be shortened when morphemes are suffixed.

hosa^kannada ====> hosgannada 'modern Kannada'

namiska: roa^su ====> namiskarsu 'to greet'

(The loss of a in both instances is by Tob 59)

List 40: Transitive Verbs 1

Source: K. 21

lists V<sub>t</sub>l

$v_{t}$ l	>	
K	add	immerse
K	ag <sup>o</sup> i	dig
K	aļ <sup>o</sup> i	measure
	ann	say
	app	embrace
K	ar <sup>0</sup> i	grind
	· att	drive away
<b>K</b> .	a <b>ʻ</b> Į	rule, reign
K H	badla y±s	change
K	bađ <sup>0</sup> i	beat
K	ba <b>₫±</b> s	serve (food)
	bay <sup>o</sup> yi	scold
K	ba*c	comb, rake in
	ba <b>ʻr<del>i</del>s</b>	beat, play an instrument
K	bi <b>d</b> *	leave, let go
K H	big <sup>o</sup> i	tighten, tie; lash
	bi°r	scatter, throw (stone)
K	bi*s <sub>2</sub>	mill (flour)
	bi°s <sub>3</sub>	throw (stone, etc.)
K	bitt	sow
		·
	ca°c	stretch out
K	cecc	beat up
	ci*p	suck

lists  $v_t$ 1

K	cucc	prick
K	cuna*ys	elect
	•	
	daba <sup>•</sup> ys	browbeat
	dabb	push away
H	đa t	cross
K	do c	plunder
K	eb <b>b</b> ±s	raise, waken
K	eļ <sup>o</sup> i	pull
	eņis	count, imagine
	es <sup>o</sup> i	throw
H	e°r	climb
K	gi°c	scribble
K	gi'r	draw lines
K	gor	rake, scour
K Hn	guđis	sweep
. <b>K</b>	hacc	smear
K Hn	har <sup>0</sup> i	tear
Hn	harad	spread
K	ha*k	put
K	h <b>a</b> Ís	spread (cloth)

```
K
           hecc
                            slice
           hen<sup>O</sup>i
K Hn
                            weave, plait
K
           hett
                            hammer in
           he'l
K
                            tell
           he'r
                            burden
K
           hidi
                            hold, catch
           hi'r
                            suck in (liquids)
           hod<sup>o</sup>i
                            cover (with cloth, etc.)
           hod^{O}i
                            beat
           hog*
                            enter
           hogal
                            praise
           hol^{O}i
K ,.
                            sew
           hor*
                            bear a burden
           hoy<sup>o</sup>yi
K
                            pour (liquids)
           ho'ī
                            resemble
           hur^{O}i
K
                            roast
           hutt
                           be born
           hu'OI~hu'I
K
                           bury
           ir qi
                            stab
           jo dis
K
                           put together, arrange
K
          kacc
                           bite (into)
          kad<sup>o</sup>i
K
                            steal
```

```
kađ<sup>0</sup>i
                                fell<sub>1</sub> (tree), bite<sub>2</sub>
K Hn
            kakk
                                 vomit
K Hn
            kalak
                                 stir
            kalas
K Hn
                                mix
K
            kalis
                                 send
            kar<sup>0</sup>i,
K
                                 fry
            kar<sup>0</sup>i<sub>2</sub>
                                call, invite
            ka'd
                                 vex
Hn Bn
            ka n
                                 see
            ka'r
                                 throw up
            ker<sup>o</sup>i
                                 scratch
            kett
K Hn
                                 carve
            ke'l
                                hear, ask
Bn
            kol<sup>n</sup>l
                                 kill
            kol<sup>n</sup>l
                                 buy
            koy<sup>o</sup>yi
K Hn
                                 cut
            kuđ<sup>0</sup>i
                                 drink
            kukk
                                bring down violently
            kutt
K Hn
                                pound
            ku'g2
                                 call (someone)
            madis
                                 fold
K Hn
            NP<sub>x</sub>^ma'd<sub>1</sub>
                                 'make' as verbalizer (see Note)
            ma'd
K
                                 do, make
K
            ma'r
                                 sell
```

	me**yi	graze
Н	mi°r <sub>2</sub>	outdo, disobey, go beyond
K Hn	mucc	cover
	muft	touch
	mu s	smell
K	na*d	knead
	namb	believe, trust
K Hn	ned*	plant
H	neg <sup>0</sup> i	leap
	nekk	lick
	nen <sup>o</sup> i	remember
	no d	see
	ođ <sup>0</sup> i	kick
K Hn	ođ <sup>o</sup> i	break
Hn	opp	agree
K	ott	press
K	oras	wipe

lists  $V_t$ l

	parac	claw, scratch (someone)
K	po n <del>i</del> s	thread
	sa'r	broadcast
K	sa r <del>i</del> s	wash the floor
K Hn	se*d	draw (water)
H	se'r	reach
K	so*s	filter, strain
K Hn	sul <sup>0</sup> i	skin, exploit
K Hn	sur <sup>0</sup> i	pour
	tabb	embrace
Hn	tapp	mistake, miss
K Hn	tar <sup>0</sup> i	shave off
K	tar <sup>n</sup>	bring
	ta'g~ta'k	strike against
	ta <b>'</b> l	bear, be patient with

lists  $V_t$ l

KH	teg <sup>0</sup> i	take away, open
K	tidd	correct
K	tikk	rub
Hn	tinn	eat
Hn Bn	til <sup>o</sup> i	know
	tiv <sup>o</sup> i	elbow
K	ti°đ	rub (against)
•	•	
K Hn Bn	tumb	fill
K	tu*g	weight
K	tu°r <sub>1</sub>	winnow
	ug <del>i</del> ļ	spit
K	ujj	rub

List 41: Transitive Verbs 2

Source: K. 21

lists V<sub>t</sub>2

 $v_t^2 \longrightarrow$ 

her\* give birth

K id\* place, keep

kal<sup>0</sup>i learn

K Hn Bn ki \* + 1 pull out

kod\* give

pad\* undergo

H mar<sup>O</sup>i forget

KH sud\* burn

ter\* give unwillingly

ud\* wear

K ul\* plough

Lists 42: Intransitive Verbs 1

Source: K. 21

lists  $V_{in}l$ 

v <sub>in</sub> 1	<del>&gt;</del>	
H	alla d	oscillate, shake
	ant	stick to
	arac	howl
	a^đ	play, speak
H, Hn	a°°g	become
H	a'r	cool
н в	bad <del>i</del> k	live, be alive
H	bagg	bend
	bar <sup>n</sup>	come
	ba*đ	wither
	ba <b>ʻ</b> Į	live
H	becc	be startled, to 'start'
H	bevar	sweat
Hn B	bel <sup>o</sup> i	grow
H	be <sup>•n</sup> yi	cook, burn
	N <sub>2</sub> bi•*]	fall (Cf. Notes)
	bi*s	blow (wind)

## lists $V_{in}l$

	e°d.	gasp, pant
В .	e**1	rise
	goņag	grumble
	han <sup>0</sup> i	sprinkle, drizzle
H	har <sup>0</sup> i	tear
H	has <sup>0</sup> i	hunger, be hungry
	ha*d	sing
Hn B	ha'r	jump, fly
H	hecc	increase
H	hedar	fear, be frightened
	he's	flinch (from)
	horal	turn (on one's side)
В	ho og	go
	hu's	break wind

### lists V<sub>in</sub>l

	ir*	be
	i*j	swim
Hn	jar <b>i</b> g	move a little, happen
Hn	ja <b>°</b> r	slide
Hn	kadal	stir
	ka' <sup>o</sup> yi <sub>l</sub>	wait
Hn	ka <sup>•o</sup> yi <sub>2</sub>	get warm
	<b>-</b>	
	kemm	cough
	kir <del>i</del> c	shout loudly
Hn	kud <del>i</del> r	get better, liven up
Hn	kugg	decrease
	ku g	cry, shout, call
Hn	malag	lie down
Hn	ma°s	tarnish
Hn Bn	mug <sup>o</sup> i	finish

### Vin

	na°c	be shy
H	na'r	reek
H	opag	dry
	sa'l	suffice
	si.on	sneeze
H	so r	leak
	ta <b>°</b> Į	wait
	te'l	float
H	tir <del>i</del> g	turn
H	uļ <sup>o</sup> i	remain behind
H.	ur <sup>0</sup> i	burn
	ur <del>i</del> ļ	roll

List 43: Intransitive Verbs 2

Source: K. 21

lists V<sub>in</sub>2

 $v_{in}^2 \longrightarrow$ 

al\* weep

H bal<sup>o</sup>i ripen, harden, age

H beva<sup>o</sup>r sweat

he'01 defecate

HB horad\* go, start

H ked\* spoil

H kol<sup>o</sup>i rot

H ku'or sit

Hn Bn mig\* remain, left over

mol<sup>o</sup>i sprout

nag\* laugh
H nar<sup>0</sup>i gray (hair)

 $V_{in}^2$ 

Hn ner<sup>o</sup>i fill

Hn nil<sup>n</sup>l stand, stop

H sa<sup>0</sup>yi die

H sig\* be found

Hn to c occur (thought)

Bn to'r seem

H Bn ukk boil over

List 44: Verbs

Source: Derivation 7

V<sub>k</sub> ----→ ba·l live, endure
he·l say
kal<sup>o</sup>i learn
ke·l listen, request, ask
ko·r entreat
namb believe
···
Vg

Vk's are verbs that take ike to yield abstract nouns.

List 45: Verbs

Source: List 44

Tob (37):  $Vg^ike ====\Rightarrow Vg^ige$ 

Vg ----> her\* give birth to
holoi sew
suloi extract (tax, etc.)
ter\* give unwillingly (tax)
vopp assent

Vg's are verbs that take ige to yield abstract verbs.

List 46: Cognate Objects

Source: VedDerivation

$v_R$	>	arac	scream
		bad <del>i</del> k	live
		ba•ļ	live
• •		e•d	gasp
		horaļ	turn (on one's side)
		hu•s	fart, to break wind
.,		i•j	swim
		kemm	cough
		ku•g	call
		ukk	boil over
		ur <del>i</del> ļ	roll
		• • •	

These intransitive verbs have the same shapes as the abstract nouns derived from them. The latter may be used as cognate objects. All these are already listed in  $V_{in}$ 's.

Some intransitive verbs can take cognate objects  $(V_R)$ , the nouns often directly derivable from the verbs themselves: ha·qu (song), ha·ru (jump), etc. Cf. Descriptive Etymology. The objects may be, by extension, other words with the same semantic referent or descriptive members of the same semantic class. For instance, ha·qu 'song' can be substituted by 'ki·rtne, varṇa, sa·ngu, padya' all of them different kinds of song or singable items.

Several of the transitive verbs also may have cognate objects rarely as the second objects: appu 'embrace', addu 'immerse', badi 'beat', etc. (avinnal vond addu adda '(He) ducked himl a duck of duck

Note on Verbs, Objects, Subjects

Restrictions on the kinds of objects that are usually taken by each verb are disregarded. For instance, one may find that usually 'tinnu' (to eat) does not take mane (house), as in avlu mane tindlu 'She ate the house'. As elsewhere in these pages, myth, legend, fairytale, poetry, humor, proverb and paradox and other imaginative explorations of collocational possibilities are envisaged and so the rules are left open and free in this regard. Here are a few examples of what might seem unusual selections of lexical items, which are very common in Kannada:

 $magu^1 mane \cdot n^2 tintu^3$ The child ate up the house 2

magul ta·yi·n2 nunkontu3

The child devoured the mother (i.e. the child's birth was unlucky, and the mother died, or the house broke up)

avsardal ajji mayneridlu 3

All in a hurry, the grandmother had her first periods (proverb on the inconguous inconveniences of life)

sra·vaṇdalli<sup>1</sup> kurɨḍa·davɨnge<sup>2</sup> u·rella<sup>3</sup> hacge<sup>4</sup>
To the man who goes blind<sup>2</sup> in the rainy months<sup>1</sup> the place<sup>3</sup>
is green<sup>4</sup> all over·<sup>3</sup> (proverb)

List 47: Subjects

Source: Vb list

Tob (38): 
$$NP^k + \begin{bmatrix} bi \cdot s_1 \\ han^{0}i \\ sa \cdot 1 \end{bmatrix}^k ====\Rightarrow NP^n + \begin{bmatrix} bi \cdot s_1 \\ han^{0}i \\ sa \cdot 1 \end{bmatrix}^n$$

Some intransitive verbs like bi.su 'blow', hani 'sprinkle, drizzle', sa.lu 'suffice' are usually compatible only with neuter nouns. The first two are also very limited in their collocational possibilities, except in experimental writing.

ga·ļi<sup>l</sup> bi·s±tte<sup>2</sup>
maļe<sup>l</sup> hany±tte<sup>2</sup>
haņa<sup>l</sup> sa·l±tte

The wind blows. 2

The rain drizzles. 2

The money will suffice. 2

List 48: Post-verbs

Source: K. 5

The above are post-verbs or 'aspect-markers'. The rough glosses for these follow. As these are also free forms in themselves, their glosses when 'free' are also given. ho.gu 'to go' and bax' 'to come' are added here because they act as emphatic post-verbs (cf. notes on them) on a restricted number of verbs (p.222, 223).

Note also that bidu the post-verb often differs phonologically (in colloquial speech) from bidu. This is indicated by the following Top.

Top (36): 
$$X^{\pm}$$
bid\* Y ==== $\Rightarrow$   $X^{\pm}$ b $\pm$ d\* Y

#### Gloss of free forms:

"to give" kodu benefactive avnigl ma.dkodu<sup>2</sup>
"do it<sup>2</sup> for himl
"to buy, get" kollu reflexive, etc. avnul adige<sup>2</sup> ma.dkonda<sup>3</sup>
Hel made<sup>3</sup> the meal<sup>2</sup>
for himself<sup>3</sup> 216

"to	leave,	b <b>i</b> đu	completive	ma• dbitta	he did
let	go"			it decisivel	у .
"to	happen"	a•gu	•	ma•da•ytu <sup>2</sup>	
				finished <sup>2</sup> do	ing (it)
"to	be"	iru	perfect	ma•dida•ne	He has
				done it	

iru and a·gu are 'auxiliaries'; like post-verbs they take past-participial (^i) stems. But as seen in kernel 5 their positional privileges are different from other post-verbs.

Post-verbs: an

Alternative Statement

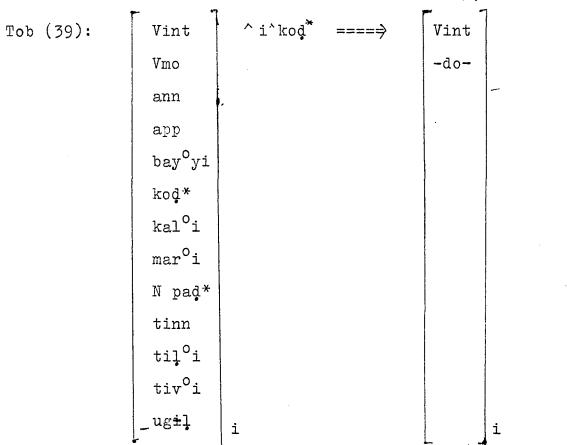
Source: Top

An alternative solution for deriving post-verbs would be via the Top which generates Vb^i + VP^k (Adverbial Participles + Verb), and by a further Top change the juncture to ^, when VF's are from the above list of post-verbs (kollu, kodu, etc.):

Restriction on: V kodu

(benefactive)

Source: K. 5, List 48



Intransitive verbs, verbs of motion and some transitive verbs listed in the rule above cannot take kodu as the post-verb  $k \cdot 5(p \cdot 11, L \cdot 48)$ . But they may enter a verb phrase with kodu as the second member:

Tob (40): 
$$kol^n l^n kol^n l ==== kol^n l$$

Kernel 5, allows kolin to follow itself, which is eliminated here. All the privileges of occurrence are charted below:

	biḍu	kođu	koļļu
biqu	+	+	+
kođu	+	-	+
koļļu	+	-	-
ba•	+		. <del>-</del>
ho•gu	+	-	eno.

Other restrictions are given in the following rules.

Other verbs that act occasionally as post-verbs are
mentioned and discussed briefly in the notes that follow.

ba. and ho.gu as post-verbs cannot follow any post-verb (cf. kernel 5).

The addition of kollų intransitivizes some transitive verbs.

avnu<sup>1</sup>  $\text{ni} \cdot \text{r(an)}^2 \text{ tum(b)ko} \cdot \text{ta} \cdot \text{ne}^3$ He<sup>1</sup> fills<sup>3</sup> (X) with water<sup>2</sup> for himself.<sup>3</sup>

baketnal<sup>4</sup> ni·r<sup>5</sup> tum(b)kollutte<sup>6</sup>
The water<sup>5</sup> fills<sup>6</sup> in the bucket.<sup>4</sup>

Restrictions on kodu, etc.

Tob (41): 
$$V^i \begin{bmatrix} kod^* \\ ho \cdot {}^0g \\ bar^n \end{bmatrix} i$$
 ====⇒  $V^i + \begin{bmatrix} kod^* \\ ho \cdot {}^0g \\ bar^n \end{bmatrix} i$ 

All verbs unmarked in the list by one of the capitals K, B, or H, do not <u>usually</u> take kodu, ho.gu, ba. as aspectmarkers after the past adverbial participle. They may however take kodu, ho.gu, ba. as the finite verb after them.

avnu mantra·n and koţţa ----> avnu mantra·n² and u³ + koţţa⁴ He,¹ having said² the chant,³ gave (it).⁴

But,

avnul mantra·n² he·l koţţa³ Hel taught³ the chant·²

Note the semantic shift in the latter: he.l means 'to say'. Cf. Appendix on similar collocations.

Restrictions on ho gu ba.

Tob (42):
a) 
$$N^k + \begin{bmatrix} Hn \\ Bn \end{bmatrix}_i V^i \cap \begin{bmatrix} ho \cdot {}^{\circ}g \\ bar^n \end{bmatrix}_i$$
  $ho \cdot {}^{\circ}g \cap ho \cdot {}^{\circ$ 

b) 
$$\begin{array}{c} X + \begin{pmatrix} K \\ H \\ B \end{array} \right) V + Y = ===\Rightarrow X + V + Y$$

Being unmarked, k implies all the tense possibilities. The verbs that are marked Hn and Bn in the lists have the peculiarity of being used only with neuter subjects. As an earlier rule indicates, any transitive verb in the neuter can be intransitive and 'impersonal'. The capitals are removed by the second rule.

\* N^k + ka.n^d^Hn ho.g^k ====> (sanni<sup>1</sup> +) kand^ho.ytu<sup>2</sup>
coma<sup>1</sup> set in<sup>2</sup> (with regard to a patient).
kandu means 'having seen'. Note semantic shift.

\*N k + kannodoBnobarnok ===== (adir gunal +) kan(d)bantu<sup>2</sup>

Its virtue became clearo

Notes on Collocations, Particular Verbs:

Adv. Participle + Vb a.qu

Source: Top 7

a.qu'to play' acts as an aspect-marker (post-verb) of sorts (less productive than kollu, koqu, etc.) after certain verbs. Like the other aspect-markers mentioned, this 'idiomatic' shift takes places only after V^i, the past adverbial participle. a.quhas the significance of an intensive, of restless activity, etc. E.g.:

Gloss of verbs		Gloss of collocations
'jump'	negid \ ^ a · du	jump about
'dance'	kuņ±d	skip around
'snatch, tear'	kitt	tear and maul, etc.
'walk in circle, roam'	sutt	roam about
'call'	ku•g	shouts angrily
'scold'	bayd	scold ceaselessly
'run'	vo•d )	run about

After certain object nouns also it is frequent as a verbalizer of sorts and undergoes semantic shifts, so that the collocations of N+a·qu must be learned as unititems:

Object-noun

Collocation

'word'

ma•t }

a•du

to chat, to speak

'quarrel'

jagila∫

to quarrel

Notes: ba., ho.gu

Source: List 48

ba. ('to come') also has special uses, somewhat as in English 'come to be known', again always in the neuter, as indicated by the symbol Ban:

# Verb Collocation 'know' tilid bantu came to be known 'see' kand bantu came to be seen or recognized

In the construction VP^ta. banda, where VP^ta. is a present adverbial participle, there is a special sense of iteration.

avnul dina. 2 jarman 3 o.tta. 4 banda 5 Hel kept on 5 reading 4 German 3 every day. 2

ho.gu ('to go') may also be used in a similar sense:

avnu<sup>1</sup> dina.<sup>2</sup> jarman<sup>3</sup> o.tta.<sup>4</sup> ho.da<sup>5</sup> He<sup>1</sup> went on<sup>5</sup> reading<sup>4</sup> German<sup>3</sup> daily.<sup>2</sup>

kelsa<sup>1</sup> mugi·ta·<sup>2</sup> bantu<sup>3</sup>
The work<sup>1</sup> began<sup>3</sup> to get finished·<sup>2</sup>
(The work came<sup>3</sup> (to) being finished·<sup>2</sup>)

kelsa<sup>1</sup> hecta.<sup>2</sup> ho.ytu.<sup>3</sup>
The work<sup>1</sup> went on<sup>3</sup> increasing.<sup>2</sup>

ba. and ho.gu are also frequently used in construction With negative adverbial participles, in special uses:

avnu<sup>1</sup> ma·dde·<sup>2</sup> ho·da<sup>3</sup>
He<sup>1</sup> didn't care<sup>3</sup> to do (it)·<sup>2</sup>
(He<sup>1</sup> went<sup>3</sup> without doing it·<sup>2</sup>)

haṇa sa·lde· ho·ytu bantu bantu

The money was not sufficient. 2,3

(The money went went without being sufficient. 2)

'came'

(Cf. note on sa.lu)

Notes: bi•lu

Source: Top 7, Vb-list

a) bi.lu frequently goes with verbs of motion, the collocation meaning "having done X, he fell down."

slide ja•r bidda

he slid and fell

die sat bidda

he fell dead

In some cases it develops special senses:

sa·vral ka·gda<sup>2</sup> band biddide<sup>3</sup> A thousand<sup>1</sup> letters<sup>2</sup> have piled up.<sup>4</sup>

band biddide = having come, has fallen. 2

avnu nenne negid bidda He 'kicked the bucket' yesterday. 2

 $neg \pm d^{1} bidda^{2}$  = having jumped, fell: a dysphemism for death.

b) As listed in the verb-lists, bi•lu occurs compounded with a number of nouns:  $N_z$  bi•lu• This is the most convenient way of stating this phenomenon, as  $N_z$  can be assigned neither to a subject nor as object• This verb like a•gu, ma•qu, paqu, is another verbalizer•

 $N_z$  ---->  $(k^h a \cdot y)e$  illness disuse, ruin

k<sup>h</sup>a·yle bi·lu means 'to fall iil' halu bi·lu means 'to fall into disuse'

c) bi.ļu enters into many idiomatic phrases with postpositions:

d) biddu biddu (bi\*l^d + bi\*l^d) 'falling-falling' is used frequently in the sense of "with all his might":

bid bidd<sup>1</sup> o·dda<sup>2</sup> He studied<sup>2</sup> very hard.<sup>1</sup>

Notes: ha·ku

Source: Top 7, Vb list

ha•ku has the (intensive) sense of "finish off easily etc•"
in the Vb^i + VP^k construction•

vondinadal hat pustka vodha kde ten books. In a day I easily finished reading ten books.

In this sense, yesi ('throw') is also used, adding more force to the ease with which something is done.

hat dinad kelsa na vond gante 1 ma desda He finished off in one hour ten days work. (ma di esda threw away having done to di esda having done)

Again, as with kodu, ha.ku and esi go with verbs of physical activity, usually tasks of one sort or another:

e·g· agi 'dig'

ali 'measure'

nedu 'plant'

se·du 'draw (water)' etc·

Notes: ho.gu (Post-verb)

....

Source: List 48

ho.gu ('to go') usually has an intensive-completive sense. It also intransitivizes, and has a passive, "to get Vb", sense.

Gloss of Verbs		Gloss of Collocations
tear	harid ho•gu	'get torn'
mix	kal <del>i</del> s ho•gu	'get mixed'
see	kand ho•gu	'become apparent'
carve, dig	ket ho•gu	'become dented, etc.'
pound	kut he•gu	'be ruined'
overstep	mi•r ho•gu	'overshoot, get out of control, get too late'
cover, shut	muc ho.gu	'be covered up'
plant	net ho gu	'get rooted'
draw (water,etc.)	se.d ho.gu	'get drawn in, paralysed'
take, open	tegid ho•gu	'get thin, lose weight'
know	tiļ±d ho∙gu	'be discovered, become known (esp. secrets)'

Many of these collocations are of very high frequency in common speech. The passive sense of 'ho.gu' is re-inforced by all the above being commonly used only in the neuter (p. 223 ), which makes for an intransitive impersonal construction (somewhat like 'it rains' etc.), even without ho.gu (Top 19 ).

Notes: ka.nu (negative)

Source: Vb list

ka.nuis a verb that can take the person-gender-number suffixes without any tense suffixes. Then it gets a negative significance. It is almost the only verb in the present dialect where a negative can be conjugated to agree with the subject. There are a few sporadic instances of others in proverbs, like ta.nu. tinna parargu. koda 'He won't eat, nor will he give it to others'.

$$\begin{bmatrix}
na \cdot n \\
na \cdot v \\
ni \cdot n \\
ni \cdot v
\end{bmatrix}$$

$$+ ka \cdot n^{\hat{}} k ---- \rightarrow$$

$$\begin{bmatrix}
na \cdot n \\
na \cdot v \\
ni \cdot n \\
ni \cdot v
\end{bmatrix}$$

$$i$$

As seen above the values for k here are the same as for other verbs with the tense endings.

Notes: kodu (Post-verb)

Source: List 48

koquin ('to give') usually functions as a 'benefactive.'
As one may see, many of the verbs are verbs descriptive of physical tasks: agi 'to dig', ali 'to measure', badi 'to beat', etc. With some verbs, as below, it develops new senses (the glosses are only suggestive, not perfectly precise equivalents).

Gloss of Verb		Gloss of Collocation
leave	biţ kodu	release
bring	tan(d) kođu	fetch
say	heļ koļu	teach

Notes: koļļu (Post-verb)

Source: List 48

Tob (43):  $V^i \sim kol^n = \Longrightarrow V^i \sim ko$ 

V + kol (reflexive):

Gloss of Ve	rb		Gloss of Collocation
badi	to bea	t baḍko•(int	r) to protest or warn in vain
biđ	to lea	ve (ni·r) biţ	ko. It oozed water
ha•k	to put	ha•kko•	to wear, put on
hardḍ	to spr	ead haraḍko•	to spread by itself
he•ļ	to tel	l he•ļko•	to confide, to unburden
			oneself
hodi(tr)	to bea	t hodiko•(ir	ntr) to speak in vain
kadi	to cut	ka <b>dik</b> o	to cut (tree, etc)
			for one's use
kari	to cal	l kar <del>i</del> ko•	call (child, etc.)
			away from speaker
kars	to cau		
	to cal	kar <del>i</del> sko•	to get someone to come over
ka•n	to see	e kandko•	to realize for oneself
ke•ļ	to lis	sten, ke•ļko•(i	ntr) to entreat, request
	to asl	ς	
ku•g	to cal	ll ku•kko(in	tr) to scream
mucc	to shu	at mucko.	to shut up (in abusive
			language
namb	to be	lieve nam $\langle$ b $\rangle$ ko $\cdot$	to trust implicitly

nen <b>a s</b>	to cause to nenasko.	to remember with feeling
	remember	
no• d	to see no.dko	to look after
se•r	to reach, se.rko.	to reach safety, to join
	join	a party, etc.
ta•	to bring $tan\langle d \rangle ko$ .	to get a bride (from a
		certain family)
horad	to start horaţko.	(always neuter) to sprout

ku·ru (to sit), udu (to wear), kali (to learn), tili (to know), kollu(to buy) rately occur without kollu; with words like he·lu (to defecate), suli (to skin), bevir (to sweat), tinnu (to eat), kolluhas an intensive connotation also.

Other words like kequ? (to spoil), ka·yi (to warm), mugi (to end), sa·yi (to die), sa·lu (to suffice), alla·qu (to o oscillate), a·gu (to become), hani (to sprinkle), ho·gu (to go), almost never take koļļu except in koļļi (koll li) forms: keṭre keṭkoļļi = if he must rot, let him; a·gu, sa·yi, alla·qu, ho·gu also may enter this frame:

V're + V^koļļ^li (Top 3, cf· p· 44)·

## INTR.

a• ḍu	to play	a•dko•	to gossip; to play by
			oneself
bad <del>i</del> k	to live	badikko•	to survive somehow
hecc	to increas	e hecko.	to swell with conceit

Notes: ma.du ("Conjunct

verb")

Source: Vb-lists

ma·du acts very productively as a verbalizer from nouns, especially abstract nouns, here designated  $N_{\mathbf{x}}$ , a sample list of which is given below:

As may be seen, it is a productive pattern into which any foreign word may go. But the slot is a noun-slot, and even words like 'suffer' which are verbs in the "model" are rendered as nouns in the "replica." Any adjective can be verbalized by adding ma.qu to its nominalized form: doddad ma.qu: 'make it big, enlarge it, etc.

That this ma.qu is a verbalizer and not a transitive with the preceding noun as object is made clear by comparing it with the following set:

This set also is hospitable to loans, 'verbalizes' (only in translation) the preceding noun, and looks like the previous one. But an accusative an may be added to the nouns here; they may also undergo a nominalizing transformation as any object:

is possible. But not:

Notes: paqu "Conjunct

verb"

Source: Vb-list

Tob (44): 
$$X + N^an + pad^* ==== X + N_y^an pad^*$$

paqu ('undergo, suffer') though transitive, has a limited range of objects, which it verbalizes. Unlike the transitives, it never occurs as a free form without objects. That they are objects is seen by the insertibility of the accusative an as well as the possible nominalization of  $N_y$ :

$$avin^1 kaşt^2 patta^3 ====\Rightarrow avin^4 pat^5 kaşta^6$$
 $He^1 suffered^3 hardship^2 ====\Rightarrow the hardship^6 he^4$ 
 $suffered^5$ 

 $N_y$ 's are limited to words descriptive of states of mind; here is a sample list:

So nearly exclusive is this list that one may use paqu as grammatical marker for "nouns that describe states of mind."

Tob (45): 
$$X + VP^Y paq^k ==== X + VP^k$$

(Y = participial endings)

padu never enters into any constructions with other verbal participles, as the finite verb.

Notes: sa·lu

Source: Vb-list, Top 7

sa·lu ('to suffice') as a verb does not take any of the aspectual post-verbs; it enters into other constructions with a few verbs like ba·, iru, ho·gu ('come', 'be', 'go') with special senses·

hana sa·1<sup>2</sup> bantu<sup>3</sup>

The money came to be sufficient.<sup>2</sup>

hana sa·1ta·<sup>2</sup> ittu<sup>3</sup>

The money would have sufficed.<sup>2</sup>

hana sa·1de·<sup>2</sup> ho·ytu<sup>3</sup>

The money was not sufficient.<sup>3</sup>

Morphophonemics: Post-verbs

koļļu

Source: List 48, Vb lists

Tob (47): 
$$X_{\{e\}}^{O_i} \cap I \cap \left[ \begin{array}{ccc} kol^n \\ kod^* \end{array} \right] ====\Rightarrow X^{\frac{1}{2}} \cap \left[ \begin{array}{ccc} kol^n \\ kod^* \end{array} \right]$$

With words like hari, heni (tear, weave) ending in front vowels, the past participial suffix should be id - but this is dropped in the colloquial before kollu and kodu as post-verbs. Of also

Morphophonemics: Post-verbs

kodu

Source: List 48

Tob (48):

a) 
$$teg^{i}$$
  $\hat{i}$   $\hat{i}$   $togoldi$   $malag$ ,  $malakkoldi$ 

b) 
$$teg^{\circ}i^{\circ}i^{\circ}kod^{*}$$
 ==== $\Rightarrow$   $t(e)kkod^{*}$ 

Underlined elements to be chosen or left out together.

a) tegi and malagu ('take out, open, etc.', 'lie down')
undergo allomorphic changes when kollu in the imperative
is the post-verb. The underlined elements are plural
endings. b) gives the optional variants of tegli before
kodu - as a sample of certain free variants of verbs. The
'normal' allomorph of i the participial should have been id.

Morphophonemics: Past Participles

Source: Vb lists, Top 1,7

Tob (49): 
$$V_{2}$$
  $XY^{S}Z$   $\begin{bmatrix} i \\ a \end{bmatrix}_{j}$  ==== $\Rightarrow$   $V_{2}$   $XY^{S}Z$   $\begin{bmatrix} d \\ d^{a} \end{bmatrix}_{j}$ 

i and a are past participial endings, adverbial and adjectival, respectively. The above rule gives some of the allomorphs of these endings. For all  $V_2$  verbs and all those stems that carry a superscript morphophoneme (i.e., all 'irregular' stems), the past tense forms (indicated by d) without gender-number features are the participial forms. The adjectival a is added to the past forms.

Root	Past	Adverbial P.	Adjectival P.
kali	kal <del>i</del> tlu	kal <del>i</del> tu	kalita
learn	she learnt	having learned	learned
kol <sup>n</sup> l	kondlu	kondu	konda
kill	she killed	having killed	(the one) who killed, or who was killed

The other participial endings are added to the verb-roots directly: kali.de 'not having learned,' kalita. 'learning,' kali.d '(the one) not learned,' kalyo. '(the one) learning' etc.

Morphophonemics: past tense allomorphs

Source: K. 7,21

Tob (50): 
$$V_{\begin{bmatrix} in \\ t \end{bmatrix}} 2^{d} ====\Rightarrow V_{\begin{bmatrix} in \\ t \end{bmatrix}} 2^{t}$$

Earlier in the Kernel Verbs were divided into  $V_1$  and  $V_2$  for morphophonemic reasons. While  $V_1$  verbs take d,  $V_2$  take  $t_1$  as the past tense allomorph. (  $t_2$  is the third person neuter ending.)

Morphophonemics: Verbs

Source: Vb lists

Tob (51):

a) 
$$X \downarrow n Y d ==== X \uparrow d$$

b) 
$$X \circ g$$
  $\uparrow t 1 ====\Rightarrow X \circ kk$   $t t$ 

c) 
$$X Z \begin{bmatrix} 0 \\ n \\ * \end{bmatrix}_{i} Y^{\hat{}} \begin{bmatrix} p_{i} \\ d \\ t \end{bmatrix}_{j} ====\Rightarrow -\begin{bmatrix} Z \\ n \\ (d \\ t \end{bmatrix}_{i} \begin{bmatrix} p_{i} \\ d \\ t \end{bmatrix}_{j}$$

These three are morphophonemic rules, yielding the past tense stems of verbs. The first two are specific rules, after which the more general rule c) applies to the residue. The superscripts are morphophonemes whose values are given by these Tobs. X is whatever precedes the 'commuting' member Z, and Y is what follows the morphophoneme. a) says that before d-stems with 1<sup>n</sup> change 1 to n.

$$kol^nl^n$$
 d ==== $\Rightarrow$  kond

nd becomes nd, by later rule.

In rule b) morphophoneme \* over g and d yields stems with kk and tt respectively, i.e., the voiced stops are devoiced

and geminated.

sikktu changes to siktu by later rule.

After these specifics, c) offers the general morphophonemic rule for past tense stems. Morphophoneme  $^{\rm O}$  means deletion of that which follows it,  $^{\rm n}$  the change of the consonant preceding it (Z) to  $^{\rm n}$ ,  $^{\rm *}$  the change of Z to d or t as the case may be, depending on the shape of the past tense ending.

da is the third person masculine singular ending. The plurals in K 15 are obtained by the 'action' of the morphophonese, as indicated by e):

Morphophonemics: Verbs

Top (39): 
$$X^{n}Y$$
  $t_{2}$  ==== $\Rightarrow$   $X$   $X$  bevir he.1 so.1 hu.1 i

Tob (52):  $ir^{\uparrow}t_{2}$  ==== $\Rightarrow$   $ir^{*\uparrow}t_{2}$ 

The above rule speaks of free variants in stems before t<sub>2</sub>, the third person singular neuter ending. The free variations are most conveniently expressed by making the morphophonemes optional in the case of n and \*. The variations are between the regular changeless stems and the irregular stems with changes of shape (indicated by the morphophonemes). The verb iru(to be) is an exception to this rule of free variation, and so has to be restored to its irregular form, which is done by the Tob.

bevir and hu.] (to sweat, to bury) have free variants not only in their past tense stems but also in the past tense allomorphs for the masculine feminine singulars.

These two stems could be listed either  $V_1$  or  $V_2$ , as the criterial allomorphs themselves are free variants.

The above four forms have their past stems freely varying with the base, even before the masc-fem present endings.

da, the masculine past singular ending has also an allomorph a, before the forms with the morphophoneme \* in these verbs.

The three Top's give free variants. The optional alternants (mostly before tu, the neuter past singular) in 'obligatory' inflectional changes are perhaps significant for diachronics, as nodes of change. All of the stems involved are morphophonemically complex, as indicated by the presence of the morphophonemes in superscript. One of the alternants is invariably the simple affixed ('agglutinative') form, which is both statistically more frequent and historically more productive. All loan-forms and those derived from other form-classes take the simple past affix d (t-forms are a small class too, and most of the morphophonemically complex stems come from this class).

Morphophonemics: Verbs

Tob (53): 
$$\operatorname{ni} \cdot \mathbf{n} + \operatorname{bar}^{\mathbf{n}}_{\mathbf{i}} = \Longrightarrow \operatorname{ni} \cdot \mathbf{n} + \operatorname{ba} \cdot \operatorname{tar}^{\mathbf{n}}_{\mathbf{i}}$$

$$\operatorname{ni} \cdot \mathbf{v} + \operatorname{bar}^{\mathbf{n}}_{\mathbf{i}} \wedge \left\{ \begin{array}{c} \mathbf{i} \\ \mathbf{ri} \end{array} \right\} = \Longrightarrow \operatorname{ni} \cdot \mathbf{v} + \operatorname{ban}_{\mathbf{i}} \wedge \left\{ \begin{array}{c} \mathbf{ni} \\ \mathbf{tar} \end{array} \right\}_{\mathbf{i}} \wedge \left\{ \begin{array}{c} \mathbf{ni} \\ \mathbf{ri} \end{array} \right\}_{\mathbf{i}} \wedge \left\{ \begin{array}{c} \mathbf{ni} \\ \mathbf{ni} \end{array} \right\}_{\mathbf{i}} \wedge \left\{ \begin{array}{c} \mathbf{ni$$

Unlike all the other verbs in the lists, bar and tar do not have the same phonemic shapes for non-past stems and second person singular imperatives. This Tob gives the second person singular imperative stems.

They have past tense stems ban- and tan- before the second person plural imperatives i (here ni) and ri, which are free variants.

Morphophonemics: Verbs

Tob (54): 
$$\begin{bmatrix} a \cdot {}^{\circ}g \\ ho \cdot {}^{\circ}g \end{bmatrix}_{i}$$
  $\begin{bmatrix} {}^{\circ}t_{2} \\ ho \cdot y \end{bmatrix}_{i}$   $\begin{bmatrix} a \cdot y \\ ho \cdot y \end{bmatrix}_{i}$ 

a.g and ho.g (to happen, to go) have a.y and ho.y as allomorphs before t<sub>2</sub> the third person neuter singular ending. The forms eliminated by this Tob, viz., a.tu and ho.tu, occur in other Kannada dialects. In an interdialect grammar this would be a Top. (For other rules of this kind, cf. page 252.

Morphophonemics: Present

Source: Kernel 16

Morphophonemics:

Tob (54.1)

a) 
$$t_2^e$$
  $x =====$   $x^e$   $x^e$ 

Where X is all that may follow  $t_2$  e in kernel 16.

The above two morphophonemic rules give the actual III person present-tense forms, Vb ta·ne, ta·le, ta·re; b) eliminates ta·te (a Muslim dialect form) for this dialect.

Morphophenemics: Past and Contingent

Tob (55): 
$$id^n\# ====\Rightarrow ida\# (masc \cdot past sg \cdot)$$

Tob (56): 
$$id^t_2 ====\Rightarrow itu$$
 (neuter past sg.)

Top (40): 
$$X^a \cdot t ====\Rightarrow X^i \cdot t$$
 (contingent)

(Tob 55) Except in final position, masc. past sg. is idn-.

'It seems he did it.'

ma·dida #

'He did it.'

Chapter Six

Morphophonemics

# Summary of Chapter Six (Morphophonemics)

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                58 a) : Vowel-length
     258 :
                58 b): Loss of vowel before long vowel
     259 :
                59 a): Loss of vowel
     260:
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     261:
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                 60 a,b: Vowel - insertion : ±
     262:
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     265:
                          a) Retroflexes
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```

### Morphophonemics

Vowels: v- and y-glides

When front vowels precede back vowels, a Y-glide appears in place of the former in allegro speech; in lento, the i and e may re-appear. u is replaced by ±.

This rule deletes a and i before i and introduces glides v (after u) and y (after e).

a is lost before a; before o and e, it acquires a v-glide.

alla e. ===> allave.

alla o. ====> allavo.

Before juncture i and e are preceded by the on-glide y, u and o by the on-glide v.

### Morphophonemics

Vowel: length

This rule states that /ieuo/, and feminine nouns ending in /-a/ get lengthened (the last optionally) when a bound or a free ( or +) morpheme is added to it. This general rule takes care of a large number of allomorphs in all the form-classes:

nadi.ta.ne	He walks	(V)
si.ta <u>.g</u> e	for Sita	(N)
guru_+mane	the Guru's house	(N)
kari_du	the black one	(Adj)

There are several exceptions to this rule, as in nadi su

---> nadsu, etc. Such cases are taken care of as they appear, by morphophonemes like owhich drop the /i/, before we arrive at the stage where the present rule can be applied. (Cf. Verb list and Top 51)

This rule is placed here because it works in all cases that are left over after the above exceptions are taken care of under individual rules (cf. also genitive. dative).

Loss of v before long vowel

b) v. v ===> v.

A short vowel is lost before a long one.

This also takes care of cases where  $\mathbf{V_1}$  is lengthened and  $\mathbf{V_2}$  is lost:

maga^anta ===> maga.^anta (Tob

maga. anta ===> maga.nta (This rule)

Tob (59)

a): XCV<^>C<V># =====> XCCV
Where X is not a juncture and # is /, + or #.

This rule applies only to short vowels that are found in the penultimate position, after the previous rules have operated on the sequence. For instance, rule 58 lengthens i, e, u, o before we reach this rule. This rule yields the various allomorphs of the forms in the lists:

yettara (cf. List 24) ===> yettra (this rule )
yettra ===> yetra (rule b)

One may ask why forms like yettara are not written yetra in the first instance. But then the geminated tt is kept intact elsewhere:

yettirdalli 'in the height(s)'

And, in lento speech, the form yettara is often pronounced as such: i.e. the present rule can be inhibited for such speed-variants (in a more detailed grammar). If one wrote yetra at the outset, neither the former obligatory variant nor the latter 'stylistic' one, can be indicated simply. The present transcription facilitates further such statements of style and speed-variants not included here.

A proviso must be added to this rule: this syncope-rule for penultimate vowels does not hold good for a few Sanskrit forms, where the irreducible vowels may be marked by an accent:

a.śrama 'hermitage'

akráma 'violation, lawlessness'

arjúna 'name of an epic hero'

But no further generalization seems possible as vowels in other Sanskrit words like aksara 'letter', budd 'intelligent man' are subject to this and other syncoperules, yielding aksira and budvanta.

Syncope:

Geminate reduction

b): 
$$\begin{bmatrix} c_1 c_1 & c_2 \\ c_2 & c_1 c_1 \end{bmatrix}$$
 ===>  $\begin{bmatrix} c_1 c_2 \\ c_2 c_1 \end{bmatrix}$ ;

If, as a result of morpheme-juncture rules, a geminate  ${^{\text{C}}_1}{^{\text{C}}_1}$  is preceded or followed by any consonant  ${^{\text{C}}_2}$  (including  ${^{\text{C}}_1}$ ), the geminate is reduced to  ${^{\text{C}}_1}$ .

Tob 59(a) ---> yettra ====> yetra

Vowel-insertion: ±

In a cluster, if a retroflex stop (§t) is followed by a non-retroflex X, or preceded by it, an i vowel intervenes. Sibilants and nasals are excluded from both \$t and X; y is also excluded from the set designated by X. The cluster on the left-hand side may be either in the listed form or may result from the operation of a rule.

b) 
$$C_{x}C_{y} + C ====> C_{x}\pm C_{y}C$$

 $\pm$  appears, as shown above, when a  $C_XC_yC$  cluster is the result of affixation, phrase-joining or compounding. The subscripts indicate that  $C_XC_y$  is non-geminate.

Metathesis: ±

Top (41)

 $C \pm Son CC ===> C Son \pm CC$ 

The I i before a sonorant (Son) in a cluster as above may undergo metathesis and may appear after the Sonorant.

mars^da ===> marisda (60 b) 'he made X forget'
mars^d^ru ===> marisdru (60 b) 'they made X forget'
marisdru ===> marsidru (this rule) "

This rule takes care of many free variants of this type and predicts further insertions of  $\dot{\mathbf{t}}$  in bigger clusters:

Тор	urļu ===> uriļu	60 a	'roll'
-	urilsda ===> urlisda	this rule	'he rolled
	urilsdru ===> urlisdru	11	'they "
	urlisdru ===> urlsidru	tt	11

In a form like urilsisidru 'they made X roll something' (double causative, all the following free variants are taken care of by this and the previous two rules:

uriļisisdru uriļsisidru urlis(s)dru etc

Similar sets can be produced for non-retroflexes also, where 60 a) does not operate:

maligu
maligsu
maligisda ~maligisda
maligsisda ~ maligis(s)da ~ maligisisda

Tob (60)

e:  $V \cdot Son_X \pm CyV = ===> V \cdot Son_X CyV$ 

When, in the shape V.Sonx toyV, Sonx and Cy are not homorganic (this is denoted by the different subscripts), if the preceding vowel is long, the i-vowel is dropped. This accounts for innumerable paired shapes like kasida 'he filched-', ka.sda 'he warmed-', turisu 'itch or scratch', tu.rsu 'thread or sneak something in'. But, rule b) applies if a consonant should appear after Cy instead of a vowel:

tu·rs^da ====> tu·risda (rule b)

The above rules do not exhaust the description of this apocopic vowel i, though it describes most of the environments. Its sporadic occurences as a free-variant and its allophony are yet to be fully taken care of.

### Assimilation:

- a) Retroflexes
- b) Dentals
- c) Voiceless stops

When a retroflex consonant is followed by 1 or n, the latter are also retroflex.

Stl voice^Stl ---> Stl^Stl

Č;

a) and b) are regressive assimilations of the second consonant to the first.

kanda He saw

vo.d^la.ra vo.dla.ra He can't run

kutt^la.ra kutla.ra He can't pound

kadd^li kadlu She stole

satt^lu She died

c) is the progressive assimilation of the voiced stop consonant to the following voiceless stop at the <u>same</u> point of articulation, indicated by subscript i.

malag^ko. \_\_\_\_\_ malakko. sleep (imperative)

idd^tu \_\_\_\_\_ ittu (this rule) it was

ittu \_\_\_\_\_ ittu (59b)

This rule eliminates pre-pausal consonants.

Before pause, a /u/ is added to any consonant.

In some styles, English loan-words with consonant-finals occur; when they do, they can easily be accommodated by including therein in the lexicon and by a specific rule like

or with a morphophonemic ending aza and a rule

Top 
$$\underline{X} \# ====> \begin{cases} XXu \\ X \end{cases}$$

Tob (63)

$$\begin{bmatrix} x + y \\ x \end{bmatrix} =====> \begin{bmatrix} x & y \\ xy \end{bmatrix}$$

All remaining +'s and ^ 's are now deleted; +'s are deleted and spaces left in their place. All the writing in the terminal strings is now to be considered phonemic.

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