

Spanish Verb Morphology

1. Lexicon

Verb Roots:

/kant-/ ‘sing’ (a-class)

/kom-/ ‘eat’ (e-class)

/bib-/ ‘live’ (i-class)

Class Suffixes:

/-a/ (a-class)

/-e/ (e-class)

/-i/ (i-class)

Non-Finite Suffixes:

/-r/ ‘infinitive’

/-ndo/ ‘present participle’

/-do/ ‘past participle’

Finite (tense, aspect, mood) Suffixes:

-∅ ‘present indicative’

/-e/ ‘present subjunctive’ (a-class)

/-a/ ‘present subjunctive’ (e- and i-class)

/-ba/ ‘imperfect indicative’

/-ra/ ‘imperfect subjunctive’

Person/Number Suffixes:

	<i>Singular</i>	<i>Plural</i>
<i>1st</i>	-o (pres. indic.) -∅ (other tenses)	-mo(s)
<i>2nd</i>	-(s)	
<i>3rd</i>	-∅	-(n)

2. Word Formation

Non-Finite Template: root –class suffix – non finite suffix

Finite Template: root –class suffix - finite suffix - person/number suffix

Matching Rule: Any suffix that is specified for verb class must match the root's verb class.

3. Rules

Assume these rule apply in the order given. Rules that are listed, but not formulated here are discussed on the *Spanish Phonemics* handout.

ε-formation: $e_{\text{class}}, i_{\text{class}} \rightarrow \varepsilon / \text{ ____ } -ra \text{ or } \text{ ____ } -ndo$

velar softening: $g \rightarrow x / \text{ ____ } -V_{\text{front}}$

e-raising: $e_{\text{class}} \rightarrow i / \text{ past tenses (e.g., imperfect indic. and subjunc. and past part.)}$

V-deletion: $V_{\text{class}} \rightarrow \emptyset / \text{ ____ } V$

b-deletion: $b \rightarrow \emptyset / i_{\text{class}} - \text{ ____ }$

syllabification: see *Spanish Phonemics*

stress rule: see *Spanish Phonemics*

stress shift: class suffix 'attracts' stress in imperfect tenses

i-lowering: $i \rightarrow e / \text{ final, unstressed syllable}$

diphthongization: $\varepsilon, \circ \rightarrow ye, we / \text{ when stressed; } \rightarrow e, o / \text{ elsewhere}$

onset promotion: see *Spanish Phonemics*

y-strengthening: see *Spanish Phonemics*

s-voicing: see *Spanish Phonemics*

alveolar fronting: see *Spanish Phonemics*

palatalization: see *Spanish Phonemics*

lateral assimilation: see *Spanish Phonemics*

nasal assimilation: see *Spanish Phonemics*

stop-fricative: see *Spanish Phonemics*

r-strengthening: see *Spanish Phonemics*

tap deletion: see *Spanish Phonemics*

4. Sample Derivations

<i>Orthography:</i>	<i>forrábamos</i>	<i>puedas</i> (cf. <i>poder</i> infin.)	<i>leyendo</i>
<i>Gloss:</i>	'line (1p. pl. imp. indic.)'	'can (2p. sg. pres. subj.)'	'read (pres. part.)'
<i>Phonemic Rep:</i>	/fɔr-r-a-ba-mo(s)/	/pɔɖ-e-a-(s)/	/le-e-ɲɔ/
<i>ε-formation:</i>	n/a	n/a	le-ε-ɲɔ
<i>velar softening:</i>	n/a	n/a	n/a
<i>e-raising:</i>	n/a	n/a	n/a
<i>V-deletion:</i>	n/a	pɔɖ-a-(s)	n/a
<i>b-deletion:</i>	n/a	n/a	n/a
<i>syllabification:</i>	for.ra.ba.mo(s)	pɔ.ɖ a(s)	le.en.ɲɔ
<i>stress rule:</i>	for.ra.bá.mos	pɔ'.ɖa(s)	le.e'n.ɲ o
<i>stress shift:</i>	for.rá.ba.mos	n/a	n/a
<i>i-lowering:</i>	n/a	n/a	n/a
<i>diphthongization:</i>	n/a	pwé.ɖa(s)	le.yén.ɲɔ
<i>onset promotion:</i>	n/a	n/a	y becomes onset
<i>y-strengthening:</i>	n/a	n/a	le.yén.ɲɔ
<i>s-voicing:</i>	n/a	n/a	n/a
<i>alveolar fronting:</i>	n/a	n/a	n/a
<i>palatalization:</i>	n/a	n/a	n/a
<i>lateral assimilation:</i>	n/a	n/a	n/a
<i>nasal assimilation:</i>	n/a	n/a	le.yén.ɲɔ
<i>stop-fricative:</i>	for.rá.βa.mos	pwé.ɖa(s)	le.yén.ɲɔ
<i>r-strengthening:</i>	for.ř á.βa.mos	n/a	n/a
<i>tap deletion:</i>	fo.ř á.βa.mos	n/a	n/a
<i>Phonetic Rep:</i>	[fořáβamos]	[pwéɖas]	[leyénɲɔ]

<i>Orthography:</i>	<i>protegiamos</i>	<i>viven</i>	<i>podido</i> (cf. <i>puede</i> pres. Indic.)
<i>Gloss:</i>	'protect (1p. pl. imp. indic.)' (cf. <i>protector</i> 'protector')	'live (3p. pl. pres. indic.)'	'can (past part.)'
<i>Phonemic Rep:</i>	/proːtɛg-e-ba-mo(s)/	/biv-i-∅-(n)/	/poːð-e-ðo/
<i>ε-formation:</i>	n/a	n/a	n/a
<i>velar softening:</i>	proːtɛx-e-ba-mo(s)	n/a	n/a
<i>e-raising:</i>	proːtɛx-i-ba-mo(s)	n/a	poːð-i-ðo
<i>V-deletion:</i>	n/a	n/a	n/a
<i>b-deletion:</i>	proːtɛx-i-a-mo(s)	n/a	n/a
<i>syllabification:</i>	pro.ːte.xi.a.mo(s)	bi.bin	po.ːði.ðo
<i>stress rule:</i>	pro.ːte.xi.á.mos	bí.bin	po.ːdí.ðo
<i>stress shift:</i>	pro.ːte.xí.a.mos	n/a	n/a
<i>i-lowering:</i>	n/a	bí.ben	n/a
<i>diphthongization:</i>	n/a	n/a	po.ːdí.ðo
<i>onset promotion:</i>	n/a	n/a	n/a
<i>y-strengthening:</i>	n/a	n/a	n/a
<i>s-voicing:</i>	n/a	n/a	n/a
<i>alveolar fronting:</i>	n/a	n/a	n/a
<i>palatalization:</i>	pro.te.ːxi.a.mos	n/a	n/a
<i>lateral assimilation:</i>	n/a	n/a	n/a
<i>nasal assimilation:</i>	n/a	n/a	n/a
<i>stop-fricative:</i>	n/a	bí.βe(n)	po.ːði.ðo
<i>r-strengthening:</i>	n/a	n/a	n/a
<i>tap deletion:</i>	n/a	n/a	n/a
<i>Phonetic Rep:</i>	[proːtɛxiámos]	[bíβen]	[poːðiðo]