Phonetic symbols for Portuguese phonetic transcription (Updated October 2012)

Vowels (monophthongs *monotongos* and diphthongs *ditongos*)

Oral monophthongs		Nasal monopl	hthongs	Oral I	Diphth	ongs	Nasal Diphthongs	
i	i	u	ĩ	ũ		ui	iu	ũĩ
e		O	ẽ	õ	ei ei	oi	eu	\widetilde{e}_{1} \widetilde{o}_{1}
ε	В	Э		ğ	εi	oi	εu	î
	a				ai		au	ĩũ

Monophthongs

Symbo 1	Description of basic value	Examples	
		stressed syllables	(unstressed syllables)
i	high front unrounded	vi, pipa	viver, rápido (EP/BP); ave, amores (BP)
e	high-mid front unrounded	vê, medo, meto, ele	geral, meter (BP) Some BP dialects have open [ε]
ε	low-mid front unrounded	até, cego, mete, ela	secção (EP), delgado (EP)
a	low central unrounded	está, carro	à, caveira, ação, faltar
в	(i)low-mid front-central unrounded	cama, rebanho (EP)	
	(ii)mid central unrounded	telha, lenha (Lisbon EP)	
	(iii)high-mid, central unrounded (more precisely, [ɔ])		viva (EP/BP); a, amor, passarinho (EP)
i	high central unrounded (older sources use [ɔ] or [ttt] for this vowel)		cevada, ave, amores (EP)
u	high back rounded	pura, peru	pelo, pulir; polir (EP)
O	high-mid back rounded	loura, ovo, doce, avô	louvar, soltar, polir (BP)
Э	low-mid back rounded	hora, ovos, dose, avó	opção, corado, sozinho
ĩ	high front unrounded nasalised	fim, cinco, sintaxe	findar
ẽ	high-mid front unrounded nasalised	cento, sempre	centena (EP 1st vowel only, BP both vowels)
ë	low-mid front-central unrounded nasalised (EP) high-mid back unrounded nasalised (BP)	irmã, campo, ânfora	manter, sambista
ũ	high back rounded nasalised	um,fundo	fundir
õ	high-mid back rounded nasalised		bom, monte, côncavo

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Diphthongs

	Stressed syllables	Unstressed syllables	Notes
ei (ti)	cheira, falei, rei (conservative EP)	peixinho	Standard (Lisbon) Portuguese has [vi]; conservative varieties, including Coimbra, have [ei]. Many BP varieties have a monophthong [e] in these words.
(ia) ia	hotéis, réis (conservative EP)		Lisbon Portuguese has [vi]
ai	pai,vai	pairar	
is	cheira, falei, rei hotéis, réis (Lisbon EP)	vaidade	The atonic diphthong results from the fusion of atonic [v] and [i] Many accents do not distinguish it from atonic [ai]
ui	Rui, fui, azuis	ajuizar	
oi	boi, foi, pois	boiar	
ic	dói, caracóis		There is no contrast between /oi/ and /oi/ in unstressed syllables
iu	viu, riu (also mil, vil BP)	(silvar BP)	
eu	meu, Deus, comeu	europa	Also found in [treuzi] <i>treze</i> in many Lisbon speakers
εu	céu (mel BP)		There is no contrast between /ɛu/ and /eu/ in unstressed syllables
ou	louça, souto	louvar	
au	bacalhau, mau (mal BP)	causar, ao	
en		saudade	This diphthong results from the fusion of unstressed [v] and [u] Many accents do not distinguish it from unstressed [au]
eĩ eĩ	tem, bens,		Standard EP has only one vowel (/cii/ in Coimbra, and /cii/ in Lisbon). Accents
ĩĩ	mãe, cães		which contrast /ei/ and /ei/ have /ei/ in tem, bem and /ei/ in mãe, cães
uĩ	muito (sole example)	(muitíssimo)	
oĩ	põe, melões	(melõezinhos)	
ĕũ	cão, vão	falaram,órfão	Unstressed final vu is often reduced to u in BP.

NB:

- ◆ For greater clarity, the second element of a falling diphthong may be explicitly marked as non-syllabic to distinguish it from a (bisyllabic) sequence of vowels e.g. [au] (pau) vs [au] (dá-o)
- ◆ The end point of most diphthongs is a centralised [1] or [v]
- in many Brazilian accents, the vocalization of /l/ results in a new set of diphthongs in -/u/:
 [au] mal [εu] mel etc.
- ♦ in some Brazilian accents, the diphthongization of vowels before /s/ creates additional cases of diphthongs in -/u/:
 [ei] três [ui] luz

Consonants

p	voiceless bilabial plosive	pipa, poupo
b	voiced bilabial plosive	bebo
t	voiceless dental plosive	terra
d	voiced dental plosive	dura
ð	voiced dental fricative	tudo
k	voiceless velar plosive	capa, quinze
g	voiced velar plosive	grande, guisado
t∫	voiceless post-alveolar affricate	tio, dente, erótico BP
d ₃	voiced post-alveolar affricate	dia, onde, estádio BP
f	voiceless labio-dental fricative	fula, foca
V	voiced labio-dental fricative	viva
s	voiceless dental fricative	sinto, cinta, associação, trouxe (EP/BP); voz, atrás, máscara (BP)
Z	voiced dental fricative	zero, dose, vozes, êxito
ş	voiceless retroflex (apicodental)	passo
	fricative (s beirão)	
Z	voiced retroflex (apicodental)	casa
	fricative (s beirão)	
ſ	voiceless post-alveolar fricative	chama, xícara (EP/BP); voz, atrás, máscara (EP, Rio BP)
3	voiced post-alveolar fricative	gente, juro, Lisboa
j	voiced palatal approximant	yate, Iara
W	voiced labial-velar approximant	quando, linguística
1	voiced alveolar lateral	lula, casal
λ	voiced palatal lateral	filha, talhar
m	voiced bilabial nasal	mimar, submeter
n	voiced alveolar nasal	menino, carne
n	voiced palatal nasal	vinho, galinha (often pronounced [j])
ŋ	voiced velar nasal	cinco, manga
ſ	voiced alveolar tap	cara, amor, carne, cabra
r	voiced alveolar trill	carro, rio, melro E other EP accents have the uvular trill [R])
R	voiced uvular trill	carro, rio, melro E other EP accents have an alveolar trill [r])
χ	voiceless uvular fricative	carro, rio, melro BP: other BP accents have voiced κ or other voiceless fricatives including [x] and [h]

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Additional phonetic symbols for narrow transcription of Portuguese and discussion of historical processes

1. Vowels:

The following **diacritics** may be used to modify any vowel symbol:

lengthened vowels	i' i'
nasalised vowels	ĩ
raised	ε
lowered	ε
retracted	<u>E</u>
advanced	Ģ
centralised	ë ö

Unstressed vowels may be:

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devoiced \dot{i} \dot{i} \dot{u} (postal [puʃ tat]) laxed (lowered and centralised) I U cp. normal/tense \dot{i} u reduced to secondary articulation of consonants t^w (quanto = [kw\tilde{v}t^w])
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The vowel /a/ is usually realised as a back low unrounded [a] when followed by /l/ ([t]) in the same syllable.

Semivowels [j w] often appear as transitions between sequences of vowels:

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\acute{e} \acute{e} = [e^{j}e]
a \acute{a}gua = [e^{j}agwe] (in dialects)
saia = [sai^{j}e]
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2. Consonants

The following additional symbols may be useful:

nasal consonants:	velar nasal	ŋ
	labiodental nasal	m

fricatives

voiced bilabial	β
voiced velar	V
voiceless retroflex	Ş
voiced retroflex	Z,
voiceless palatal	Ç

affricates:

voiceless alveolar/dental ts voiced alveolar/dental dz

fricative variants of R/ χ (voiceless uvular fricative) (Brazilian) κ (voiced uvular fricative) h (voiceless glottal fricative)

x (voiceless velar fricative)

The following diacritics may be used to modify consonants

 $\begin{array}{ccc} \text{labialized} & & t^w & t_w \\ \text{palatalized} & & tj \\ \text{velarized} & & t & 1 \end{array}$

dental t ts dental t s

devoiced d voiced t reduced n n n m

3. General symbols for use in transcribing connected speech

The ligature ___ or __ may be used to show that two sounds in separate words form a single syllable.

The syllabicity mark [] indicates that a consonant is the centre of a syllable, where no vowel is left to fulfil that function (perfeito = [pr'feitu])

Primary stress on a given syllable is indicated by a raised stress mark [1] placed before the first sound of the syllable.

Secondary stress on a given syllable (only applicable in compounds formed with -mente, -zinho, -zito) is indicated by a lowered stress mark [,] before the first sound of the syllable: $possivelmente = [pu_i sivel^i met_i].$

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