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Dari, or Afghan Persian (Indo-European, Iranian, Southwestern; ISO 639-3: prs; Lewis, Simons & Fennig 2013), is one of the national languages of Afghanistan, and a language of wider communication in much of the country. It is one of the three major Persian varieties, the others being Farsi (or Iranian Persian) and Tajiki (or Tajik Persian). Afghans refer to Dari either as [dɛˈri] or [fɒrˈsi].

An important phonological analysis of Dari is Henderson (1972). Kieffer's (1985) discussion provides a number of insights into dialectal variation around Afghanistan, and the relationship between Afghan Persian and other dialects. A wealth of data is to be found in Glassman (2000), though the focus of the text is pedagogical rather than linguistic. The phonology of Iranian Persian has previously been illustrated in Majidi & Ternes (1999). More detailed phonological studies of the Iranian and Tajik varieties of Persian are Windfuhr (1997) and Windfuhr & Perry (2009).

This Illustration is of the Dari spoken in Kabul, the capital of Afghanistan. Speakers of Dari exhibit a range of speech styles, depending on the formality of the situation. To capture some of this variation, recordings from two speakers are presented. The isolated words and the text so marked represent the formal speech style. The speaker for these recordings is from Kabul, though he has spent much of his adult life in Faizabad, Badakhshan province, and some time in Iran. In spite of these influences, he retains an identifiably Kabuli accent. The text is also presented in informal style. The speaker for the informal version is a lifelong resident of Kabul, educated, and about forty years of age. While not a trained linguist, he has considerable grammatical knowledge and metalinguistic awareness, arising from his position as a teacher of Dari to foreigners.

As the written form of the language is the basis for the formal style, formal pronunciations tend toward fidelity to the orthographic form. For example, the formal text contains [ˈmɛ-kɛrd-ɛnd] 'they were doing' where the informal text has [ˈmɛ-kɛd-ɛn]. The [r] and [d] present in the formal pronunciation reflect the written form, می کردند. Accordingly, formal Afghan and Iranian Persian are quite similar to one another, though not identical. The phonological analysis cannot merely recapitulate the orthography, however: several of the vowels are not represented orthographically, and orthographic forms often reflect the Arabic rather than the Persian pronunciations of words.

Consonants

	Bilabial	Labio-dental	Alveolar	Post-alveolar	Palatal	Velar	Uvular	Glottal
Plosive	p b		t d			k g	q	
Nasal	m		n					
Fricative		f	s z	ʃ ʒ		x ɣ		h
Affricate				tʃ dʒ				
Tap or Flap			r					
Approximant	w				j			
Lateral approximant			l					

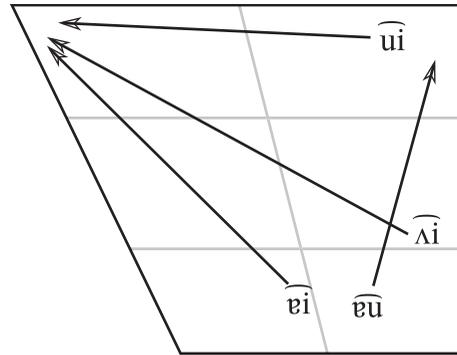
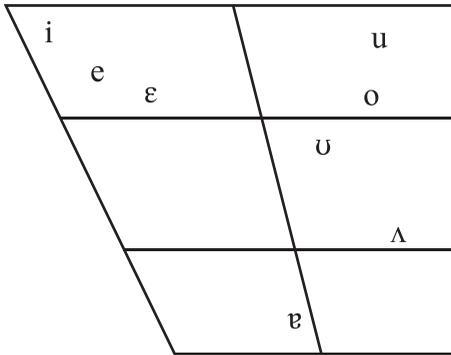
Initial			Medial			Final		
pʌ	(پا)ی	foot	kʌ'pi	کاپی	copy (N)	tʃʌp	چاپ	print (N)
bʌd	باد	wind (N)	bʌ'bʌ	بابا	grandfather	tʃob	چوب	wood
tʌdʒ	تاج	crown	hɛ'tʌ	حتی	even	hʌ'lɛt	حالت	situation
dʌ'xɛl	داخل	inside	ʌ'dɛl	عادل	righteous person	bʌd	باد	wind (N)
kʌ'kʌ	کاکا	father's brother	kʌ'kʌ	کاکا	father's brother	nʌk	ناک	pear
gʌh	گاه	time	'ɛgɛr	اگر	if	sɛg	سگ	dog
qʌ'zi	قاضی	judge (N)	ʌ'qʌ	آقا	sir	bɛi'rɛq	ببرق	flag
mʌ'mʌ	ماما	mother's brother	mʌ'mʌ	ماما	mother's brother	ʃʌm	شام	evening meal
nʌn	نان	bread	bɛ'nʌ	بنا	build	nʌn	نان	bread
fʌr'si	فارسی	Farsi	'rɛfɛ	رفع	satisfaction	nʌf	ناف	navel
sʌ'lun	سالون	parlour	ɛ'sɛl	عسل	honey	dʌs	داس	sickle
zʌt	ذات	essence	qʌ'zi	قاضی	judge (N)	hʌ'fɛz	حافظ	protector
ʃʌm	شام	evening	ʌ'ʃuq	عاشق	lover	ʌʃ	آش	noodle
ʒʌ'le	ژاله	hail (N)	nɛ'ʒʌd	نژاد	ethnicity	loʒ	لوژ	balcony
xʌ'dɛm	خادم	servant	dʌ'xɛl	داخل	inside	jɛx	یخ	ice
ɣʌr	غار	hole	bɛ'ɣɛl	بغل	side	dʌɣ	داغ	hot
hʌ'fɛz	حافظ	protector	mʌtɛ'hɛm	متهم	accused	koh	کوه	mountain
tʃʌp	چاپ	print (N)	lo'tʃ	لوج	naked	nʌ'tʃʌr	ناچار	needy
dʒʌm	جام	bowl	ɛ'dʒɛl	اجل	fate	tʌdʒ	تاج	crown
rʌ	راه	road	ɛ're	اره	saw (N)	ɣʌr	غار	cave, hole
lʌ'zɛm	لازم	necessary	sʌ'lun	سالون	parlor	sʌl	سال	year
wɛswɛ'sɛ	وسوسه	temptation	hɛ'wʌ	هوا	air			
jʌf'tɛn	یافتن	to find	ʌ'ʒʌ	آیا	interrogative particle			

There is not a great deal of categorical allophonic variation in Dari, though a number of consonant deletions and vowel coalescences occur at morpheme boundaries, as illustrated in the transcribed text below. The stops of Dari are unaspirated or lightly aspirated in all positions, except in careful speech. Voiced stops and affricates are optionally devoiced; in the recordings of isolated words, compare the devoiced allophones in [bʌd] ‘wind (N)’, [xub]

‘good’, [tʰɑḏ] ‘crown’, [neʰʒɑḏ] ‘ethnicity’ with the voiced allophones in [bɔrd] ‘he carried’, [sud] ‘interest’, [tʰɔb] ‘wood’, and [sɛg] ‘dog’. The phoneme /r/ may be trilled to [r] in emphatic speech, as occurs in the words [ʰgər] ‘if’, [rɛfɛ] ‘satisfaction’, [ɣʌr] ‘cave, hole’, [rʌ] ‘road’ in the word list above; compare the flap [ɾ] which occurs in the transcribed text. The phoneme /h/ is frequently lost in everyday speech, though less often in formal contexts. Variation in the (formally produced) word list is illustrated above, with the word-final [h] preserved in [gʌh] ‘time’ and [kɔh] ‘mountain’, but dropped in [rʌ] ‘road’.

In relation to Iranian Persian, it can be noted that Dari has distinct /q/ and /ɣ/, which are merged in Iranian Persian but similarly distinct in Tajik Persian (Kieffer 1985; Windfuhr & Perry 2009: 427). Dari always has the labiovelar approximant [w] instead of the Iranian or Tajik Persian [v]; [v] is never heard, even in formal speech.

Vowels



i	sim	سیم	wire	ʊ	buz	بز	goat
	lik	لیک	leak (N)		lutf	لطف	kindness
	mim	میم	meem (letter)		pul	پل	bridge
e	seb	سیب	apple		put	پت	hidden
	bel	بیل	shovel	u	sud	سود	interest (financial)
	mex	میخ	nail		nur	نور	light (N)
ε	sɛn	سن	age (N)		pul	پول	money
	gɛl	گل	clay	ʌi	pʌi	پای	foot/leg
	kɛst	کشت	cultivation	ɛi	pɛi	پی	tendon
v	sɛd	صد	hundred	ɛu	qɛum	قوم	tribe
ʌ	bʌḏ	باد	wind (N)	ui	tuī	توی	wedding
o	bolt	بولت	bolt		ruī	روی	face
	boɣ	بوغ	trumpet				

Dari has a larger inventory of vowels than Iranian Persian (see the six-vowel system indicated by Majidi & Ternes 1999, and also more ‘traditional’ grammars like Thackston 1993 and Mace 2003). The additional contrasts – reported previously by Henderson (1972) and Glassman (2000) – are between the front round vowels [e] and [ɛ], and the back round vowels [o] and [ʊ]. These contrasts are similar to vowel contrasts present in Middle and Early Modern Persian (Windfuhr 1997) though a more precise statement of the relation awaits further etymological study.

The distinction between the back rounded vowels is illustrated by the words [xub] ‘good’, [xud] ‘self’, and [tʰɔb] ‘wood’. The phonemes /ɛ/ and /ɛ/ are distinguished by the similar pair

Table 1 Vowel duration measurements of monophthongal vowels produced in isolation in the present paper.

Vowel	Duration (ms)		
	25% Quantile	Median	75% Quantile
e	293	302	312
i	272	282	296
ʌ	184	282	317
u	247	263	278
o	222	246	281
ɐ	158	222	269
ɛ	181	204	241
ʊ	169	177	190

[bɛl] ‘shovel’ and [gɛl] ‘mud’.¹ Several examples of each of these vowels are given above. As discussed below, the difference between [e] and [ɛ], and [o] and [ʊ], is reinforced with a length contrast.

The vowels [ʌi], [ɐi], [ɐu], and [ui] are analyzed here as diphthongs, but could alternately be analyzed as a monophthong–glide sequence. There is evidence in favor of both analyses. Although the maximal syllable template of Dari is CVCC, diphthongs do not occur in syllables with two coda consonants. This could be taken as an indication that one consonant position is being taken up by a glide. On the other hand, syllables with two consonants are not so frequent as to rule out the possibility of an accidental gap in the lexicon. Conversely, glides do not occur freely in coda position: a monophthongal analysis would then have to stipulate a list of permissible vowel–consonant sequences (i.e. [ʌj], [ɐj], [ɐw], [uj]), which in a sense merely recapitulates the diphthongal analysis. Therefore, though the phonological facts do not force one analysis over another, the diphthongal analysis is adopted here.

In the diagram above, the monophthongs are shown in their approximate locations in F2–F1 space. Two measurements are given for the diphthongs, corresponding to steady states towards the beginning and ends of the diphthongs.

Traditional analyses of Persian have distinguished between long vowels (as transcribed here, [i ʌ u]) and short vowels ([ɛ ɐ o]). Dari does not make a length distinction independent of vowel quality, though there are differences in the lengths of vowels. For purposes of this Illustration, duration measurements were made for the monophthongal vowels of the words produced in isolation. The results are shown in Table 1.

An ANOVA shows a general effect of vowel identity on vowel duration: $F(7,135) = 3.78$, $p < .001$. The difference in length between traditional long vowels of [i ʌ u] and the short vowels [ɛ ɐ o] is also significant: $F(1,141) = 19.20$ ($p < .001$). Finally, the difference is again significant if the Dari long vowel [e] and short vowel [ʊ] are included in the test: $F(1,131) = 13.35$, $p < .001$. In summary, then, there are length distinctions in Dari, which are redundant with vowel quality. These correspond to the traditional analysis of Persian short and long vowels.

Syllable structure follows a maximal syllable template of CVCC. The onset is optional; the obligatory epenthetic glottal stop reported by Windfuhr & Perry (2009) is not found in Dari (compare the words [v'rɛ] ‘saw (N)’ and [v'dʒɛl] ‘fate’). Windfuhr & Perry (2009) note that Arabic loanwords are a source of many complex codas. On nouns, stress is typically syllable-final, including any suffixes and clitics. On verbs, stress falls on the first prefix, or on the last syllable of the root if there is no prefix.

¹ Henderson (1972) suggests the similar pair [sɛr] ‘riddle’ and [ʃɛr] ‘poetry’, though the former of these words was unknown to my informants.

Transcription of recorded passage

The story 'The North Wind and the Sun' was adapted by the language consultant from Majidi & Ternes's (1999) Farsi version, to reflect Afghan word choice and usage.

Formal speech style

jək roz bəd hɛm'rɒjɛ ɒf'tɒb || 'kɛti jək dɛ'gɛr dɛ'wɒ 'mekɛrdɛnd ke ku'dɒmɛʃ
qɛwi'tɛr ɛs || dɛr in wɛqt jək musɒ'fɛr rɛ'sid | ke jək pɛ'tujɛ dɛ'bɛl dɛr 'dɛwɾɛ xud
pɛʃ'i'dɛ bud || ɒn'hɒ guʃtɛnd ke | hɛr ku'dɒmɛ mɒ ke ɛ'wɛl 'bɛtɛwɒnim musɒ'fɛr
rɒ mɛdʒ'bur ku'nim | pɛ'tujɛʃ rɒ ɛz 'dʒɒnɛʃ dur 'kɒnɛd | mɛ'lum 'mɛʃwɛd ke 'zurɛʃ
zidɒ ɛst || bəd tɒ tɛwɒ'nest wɛ'zid || 'lɛkɛn 'hɛrtʃɛ ke | bɛʃ'tɛr wɛ'zid | musɒ'fɛr
pɛ'tujɛʃ rɒ dɛr 'dɛwɾɛ 'xudɛʃ dʒɛmɛ kɛrd || 'bɛlɒxɛrɛ | bəd xɛs'tɛ ʃud wɛ mɒnsɛ'rɛf
ʃud || bəd ɛz ɒn | ɒf'tɒb tɒ'bid wɛ hɛ'wɒ 'inqɛdɛr gɛrm ʃud ke | 'fɛwɾɛn musɒ'fɛr
pɛ'tujɛʃ rɒ ɛz 'dʒɒnɛʃ dur kɛrd || bəd ɛz ɒn | bəd mɛdʒ'bur ʃud ke ɛq'rɒr ku'nɛd ke
ɛf'tɒb 'zurɛʃ zidɒ ɛst

Informal speech style

jək roz bəd ɛm'rɒjɛ ɛf'tɛw 'kɛti jɛkide'gɛ dɒ'wɒ 'mekɛdɛn ke ku'dɒmɛʃɒn qɛwi'tɛr
ɛs || dɛ i wɛxt jək musɒ'fɛr rɛ'sid | ke jək pɛ'tujɛ dɛ'bɛl dɛ 'dɛwɾɛ xud pɛʃ'ɒn'dɛ bud
|| u'nɒ 'guʃtɛn ke | hɛrku'dɒmɛ mɒ ke ɛ'wɛl 'bɛtɒnim musɒ'fɛrɛ mɛdʒ'bur ku'nim
ke | pɛ'tujɛʃɛ ɛz 'dʒɒnɛʃ dur 'kɒnɛ | mɒ'lum 'mɛʃɛ ke 'zurɛʃ zidɒ'tɛr ɛs || bəd tɒ ke
tɒ'nest | wɛ'zid || 'lɒkɛn | 'ɛrtʃɛ ke bɛʃ'tɛr wɛ'zid | musɒ'fɛr pɛ'tujɛʃɛ dɛ 'dɛwɾɛ 'xudɛʃ
dʒɛm kɛd || 'bɛlɒxɛrɛ | bəd xɛs'tɛ ʃud o mɒnsɛ'rɛf ʃud || bəd ɛz u | ɛf'tɛw tɒ'bid o
hɛ'wɒ 'ɛqɛdɛr gɛrm ʃud ke 'fɛwɾɛn musɒ'fɛr pɛ'tujɛʃɛ ɛz 'dʒɒnɛʃ dur kɛd || bəd ɛz
u | bəd mɛdʒ'bur ʃud ke ɛq'rɒr ku'nɛ ke ɛf'tɛw 'zurɛʃ zidɒ'tɛr ɛs

Orthographic version

یک روز باد همراه آفتاب کتی یکدیگر دعوا می‌کردند که کدامش قویتر است. در این وقت یک مسافر رسید، که یک
پتوی دبل در دور خود پیچیده بود. آن‌ها گفتند که، هرکدام ما که اول بتوانیم مسافر را مجبور کنیم پتویش را از جانش دور
کند، معلوم می‌شود که زورش زیادتر است. باد تا توانست وزید. لیکن هرچه که بیشتر وزید، مسافر پتویش را در دور
خودش جمع کرد. بالاخره، باد خسته شد و منصرف شد. بعد از آن آفتاب تابید، و هوا اینقدر گرم شد که فوراً مسافر پتویش
را از جانش دور کرد. بعد از آن باد مجبور شد که اقرار کند که آفتاب زورش زیادتر است.

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References

Glassman, Eugene. 2000. *Conversational Dari: An introductory language course in Dari (Afghan Persian)*, 5th edn. Peshawar: The Interlit Foundation.

- Henderson, Michael M. T. 1972. *Dari (Kabuli Persian) phonology*. Ph.D. thesis, The University of Wisconsin.
- Kieffer, Charles M. 1985. Afghanistan v. languages. *Encyclopaedia Iranica* (online edition). <http://www.iranica.com/articles/afghanistan-v-languages>.
- Lewis, M. Paul, Gary F. Simons & Charles D. Fennig (eds.). 2013. *Ethnologue: Languages of the world*, 17th edn. Dallas, TX: SIL International. Online version: <http://www.ethnologue.com>.
- Mace, John. 2003. *Persian grammar: For reference and revision*. New York: RoutledgeCurzon.
- Majidi, Mohammad-Reza & Elmar Ternes. 1999. Persian. In IPA (ed.), *Handbook of the International Phonetic Association*, 124–125. Cambridge: Cambridge University Press.
- Thackston, Wheeler M. 1993. *An introduction to Persian*, revised 3rd edn. Bethesda, MD: IBEX Publishers.
- Windfuhr, Gernot. 1997. Persian phonology. In Alan S. Kaye & Peter T. Daniels (eds.), *Phonologies of Asia and Africa*, 2nd edn., vol. 2, 675–689. London: Routledge.
- Windfuhr, Gernot & John R. Perry. 2009. Persian and Tajik. In Gernot Windfuhr (ed.), *The Iranian languages* (Routledge Language Family Series), 416–544. London: Routledge.