

(Standard) French Phonology

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Vowels

		Front		Central	Back
		unrounded	rounded		
Close	oral	i	y		u
Close-mid		e	ø	ə	o
Open-mid		ɛ (ɛː)	œ		ɔ
	nasal	ɛ̃	(œ̃)		ɔ̃
Open					ɑ̃
	oral			a	(a)

Examples:

/i/	fini	[fini]	'finished'
/y/	chute	[ʃyt]	'fall'
/u/	où	[u]	'where'
/e/	beauté	[botɛ]	'beauty'
/ø/	peu	[pø]	'few'
/ə/	je	[ʒə]	'I'
/o/	réseau	[ʁeˈzo]	'net'
/ɛ/	bête	[bɛt]	'beast'
/ɛː/	fête	/fɛːt/	'party'
/œ/	sœur	/sœːʁ/	'sister'
/ɔ/	sort	/sɔːʁ/	'fate'
/ɛʁ/	brin	/bʁɛʁ/	'sprig'
/œʁ/	brun	/bʁœʁ/	'brown'
/ɔʁ/	son	/sɔʁ/	'his'
/ɑʁ/	sans	/sɑʁ/	'without'
/a/	sa	/sa/	'his'/'her'

Vowel Constraints:

1. *[+syl +nasal -front -back]
 - a. No central nasal vowels
 - b. English does not have nasal vowels as part of its base phoneme inventory
2. *[+syl +low +front]
 - a. No front low vowels
 - b. English has at least one front low vowel: /æ/
3. *[+syl +back -round]
 - a. Back vowels are all rounded
 - b. English has at least one unrounded back vowel: /ʊ/
(and possibly /ʌ/ and /ɑ/ as well)

Consonants

Consonant phonemes of French

		Labial	Dental/ Alveolar	Post- alveolar	Palatal	Velar	Uvular
Nasal		m	n		ɲ	(ŋ)	
Plosive	voiceless	p	t			k	
	voiced	b	d			g	
Fricative	voiceless	f	s	ʃ		(x)	
	voiced	v	z	ʒ			ʁ
Approximant	plain		l		j		
	labialised				ɥ	w	

Examples

Phoneme	IPA	French	English
/p/	/pu/	pou	'louse'
/b/	/bu/	boue	'mud'
/t/	/tu/	tout	'all'
/d/	/du/	doux	'sweet'
/k/	/ku/	cou	'neck'
/g/	/gu/	goût	'taste'
/f/	/fu/	fou	'crazy'
/v/	/vu/	vous	'you'
/s/	/su/	sous	'under'
/z/	/zo/	zoo	'zoo'
/ʃ/	/ʃu/	chou	'cabbage'
/ʒ/	/ʒu/	joue	'cheek'
/m/	/mu/	mou	'soft'
/n/	/nu/	nous	'we, us'
/ɲ/	/aɲo	/ agn	eau 'lamb'
/ŋ/	/paʁ	kiŋ/	parking 'parking lot'
/l/	/lu/	loup	'wolf'
/ʁ/	/ʁu/	roue	'wheel'

Consonant Constraints:

1. *[-cont -str -nas -ant +cor +dist]
 - a. No palatal stops
 - b. English also does not have palatal stops
2. *[-ant +cor -cont -str]
 - a. All post-alveolars are fricative
 - b. English has non-fricative post-alveolars: tʃ and dʒ
3. *[-cont +stri +del. rel.]
 - a. No affricates
 - b. English has two affricates: tʃ and dʒ

Distributions:

Allophony: vowel length

Length is allophonic in French. Vowels are lengthened before voiced fricatives.

Example:

rate /ʁaːt/	vs.	rage /ʁaːʒ/
rue /ʁu/	vs.	rouge /ʁuːʒ/

The general constraint for this distribution is:

*[+long, +syl]

Which means assign one violation for every long vowel

The contextual constraint for this distribution is:

*[-long, +syl][-syl, -cont, -son, +str, +vce]

Which means assign one violation per short vowel before a voiced fricative

The ranking of the constraints would be:

contextual >> general >> faithfulness

*[-long, +syl][-syl, -cont, -son, +str, +vce] >> *[+long, +syl] >> Faithfulness

English vowels, like French vowels, can be lengthened in certain environments. Unlike French, English vowels are lengthened in front of all voiced consonants.

Allophony: palatalization

Because there are no affricates in the French language, the phonemes /k/ and /g/ become palatalized in front of front vowels and the central vowel /a/. Below is an example:

Qui [ci] vs. Que /kə/

The general constraint for this distribution can be characterized by this feature:

*[-ant +cor +dist]

Which means one violation for each palatal sound.

The contextual constraint for this distribution can be characterized by these features.

*[-ant -cor +back][+syl -back -round]

Which means one violation for each velar sound that comes before an unrounded, non-back vowel.

The ranking of the constraints for this distribution would be

contextual >> general >> faithfulness

*[-ant -cor +back][+syl -back -round] >> *[-ant +cor +dist] >> Faithfulness

Palatalization is not common in English -- instead affricates emerged over time. However, palatalization does occur in French, probably due to the fact that French does not have affricates.

Citations

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