

0. 

--	--	--	--	--	--	--	--

IPA( )

[illegible]

- IPA
- 
- 
- Wiki

# IPA

## (1) IPA

IPA International Phonetic Alphabet

[ə]

IPA

IPA

IPA

[ɒ]

[ɒ]

## (2) IPA

IPA

[https://www.internationalphoneticassociation.org/IPAcharts/IPA\\_chart\\_orig/pdfs/IPA\\_Kiel\\_2020\\_full.pdf](https://www.internationalphoneticassociation.org/IPAcharts/IPA_chart_orig/pdfs/IPA_Kiel_2020_full.pdf)

<https://www.internationalphoneticassociation.org/content/ipa-chart>

## THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

© 2020 IPA

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

## CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
ʘ Bilabial	ɓ Bilabial	ʼ Examples:
ǀ Dental	ɗ Dental/alveolar	pʼ Bilabial
ǃ (Post)alveolar	ɗ̪ Palatal	tʼ Dental/alveolar
ǂ Palatoalveolar	ɡ Velar	kʼ Velar
ǁ Alveolar lateral	ɠ Uvular	sʼ Alveolar fricative

## OTHER SYMBOLS

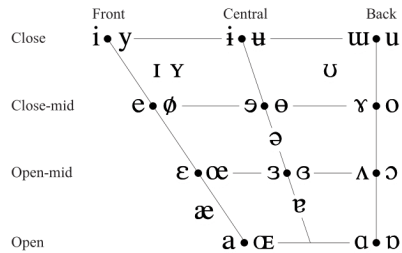
ɱ Voiceless labial-velar fricative	ç ʝ Alveolo-palatal fricatives
ʋ Voiced labial-velar approximant	ɹ Voiced alveolar lateral flap
ɰ Voiced labial-palatal approximant	ɻ Simultaneous ʃ and x
ħ Voiceless epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ʕ Voiced epiglottal fricative	
ʡ Epiglottal plosive	

## DIACRITICS

◌̥ Voiceless	◌̤ ◌̦	◌̬ Breathily voiced	◌̪ ◌̫	◌̽ Dental	◌̾ ◌̿
◌̣ Voiced	◌̨ ◌̩	◌̥ Creaky voiced	◌̦ ◌̧	◌̩ Apical	◌̪ ◌̫
◌̥ Aspirated	◌̦ ◌̧	◌̬ Linguolabial	◌̪ ◌̫	◌̽ Laminar	◌̾ ◌̿
◌̣ More rounded	◌̤ ◌̥	◌̦ Labialized	◌̪ ◌̫	◌̽ Nasalized	◌̾ ◌̿
◌̣ Less rounded	◌̤ ◌̥	◌̦ Palatalized	◌̪ ◌̫	◌̽ Nasal release	◌̾ ◌̿
◌̣ Advanced	◌̤ ◌̥	◌̦ Velarized	◌̪ ◌̫	◌̽ Lateral release	◌̾ ◌̿
◌̣ Retracted	◌̤ ◌̥	◌̦ Pharyngealized	◌̪ ◌̫	◌̽ No audible release	◌̾ ◌̿
◌̣ Centralized	◌̤ ◌̥	◌̦ Velarized or pharyngealized	◌̪ ◌̫		
◌̣ Mid-centralized	◌̤ ◌̥	◌̦ Raised	◌̪ ◌̫	◌̽ (ɹ = voiced alveolar fricative)	
◌̣ Syllabic	◌̤ ◌̥	◌̦ Lowered	◌̪ ◌̫	◌̽ (β = voiced bilabial approximant)	
◌̣ Non-syllabic	◌̤ ◌̥	◌̦ Advanced Tongue Root	◌̪ ◌̫		
◌̣ Rhoticity	◌̤ ◌̥	◌̦ Retracted Tongue Root	◌̪ ◌̫		

Some diacritics may be placed above a symbol with a descender, e.g. ɲ̥̄

## VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

## SUPRASEGMENTALS

ˈ Primary stress	ˌ Secondary stress
ː Long	ˑ Half-long
˘ Extra-short	
◌̥ Minor (foot) group	
◌̦ Major (intonation) group	
◌̧ Syllable break	
◌̨ Linking (absence of a break)	

## TONES AND WORD ACCENTS

LEVEL	CONTOUR
˩ or ˨ Extra high	˩ or ˨ Rising
˥ High	˥ Falling
˨ Mid	˨ High rising
˨ Low	˨ Low rising
˨ Extra low	˨ Rising-falling
˩ Downstep	˩ Global rise
˩ Upstep	˩ Global fall

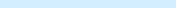



CONSONANTS



VOWELS



CONSONANTS

① 

② 

③ voiced  voiceless 

[illegible]

①

②

③

①

Front Central Back

②

Close-mid Open-mid Open

Close

③

rounded

i y [i]

[y]

---

(3) IPA

YouTube

- 1 <https://youtu.be/u7jQ8FELblo>
- 2 <https://youtu.be/UMAVKA887dl>
- 1 <https://youtu.be/dfoRdKuPF9I>
  - 1
- IPA [https://youtu.be/\\_fNkfR0XUdI](https://youtu.be/_fNkfR0XUdI)
  - IPA
  - 
  -
- IPA <https://youtu.be/OGYGDQgeh2c>
- IPA <https://github.com/open-source-ideas/ideas/issues/58>
  -
- Interactive IPA Chart <https://www.ipachart.com>
  -
- [https://utsugi-phonetics.com/phonetics\\_introduction/articulatory\\_phonetics/](https://utsugi-phonetics.com/phonetics_introduction/articulatory_phonetics/)
  - 
  - [https://utsugi-phonetics.com/phonetics\\_introduction/articulatory\\_phonetics/ipa\\_input/](https://utsugi-phonetics.com/phonetics_introduction/articulatory_phonetics/ipa_input/)
- <https://youtu.be/MP4j-hA8e-U>
  -
- IPA <https://youtu.be/j1MoHGJU8dw>



[illegible]

Fruit	Number of People
Apple	15
Banana	10
Orange	8
Grape	5
Watermelon	3

--	--	--	--	--	--

genitive

✱

- **nominative**
- **genitive**  (genesis)
- **dative**
- **accusative**
- **instrumental**  instrument  
 by  as
- **prepositional**
- **vocative**  
  
 nominative

[illegible]

※□□ A□(□)□□ B□□□□□□ □□□□□□  
для□□□□□ (genitive)□□□□□□ для□□□□□□□□□□□□□□□□□□□□

--	--	--	--	--	--	--

- 
- 



Noodle

<https://studyray.site/noodle4/index.html>



- <https://youtu.be/Fs0t4l3e09g>  
※ 30
- <https://www.coelang.tufs.ac.jp/mt/ru/>  
※
- <https://cblle.tufs.ac.jp/dic/ru/>  
※  
...  
...
- <http://rossia.web.fc2.com/pc/yazyk/nachalnyy/index.html>  
※
- <http://web.sapporo-u.ac.jp/~yamada-t/db-pdf/ref01.pdf>  
※
- <https://ocw.hokudai.ac.jp/lecture/russian-pronunciation-materials>  
※
- <https://www.s.fpu.ac.jp/u-abcpage/injapanese/Files/Gaysho%20Files/Materials/%E3%83%AD%E3%82%B7%E3%82%A2%E8%AA%9E%E3%81%AE%E7%99%BA%E9%9F%B3.pdf>



- Russian Dictionary <https://en.openrussian.org>  
※  
Wikitionary  
• Wikitionary  
<https://ru.wiktionary.org/wiki/%D0%92%D0%B8%D0%BA%D0%B8%D1%81%D0%BB%D0>



 ChatGPT  ...

- [illegible]

- [illegible]

- [illegible]



2000



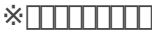
1900

- Пушкин 19
  - 
  - безнадёжно  
 безнадёжно
  -
- Достоевский 19
  - Преступление и наказание ←  
 1 4
- 



- - -
  -

Александр Александров



- 


- 

by

<https://www.cc.kyoto-su.ac.jp/~hiratuka/essays/Alya.html>

○ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ любить ☐ ☐ ☐ ☐ ☐ ☐ обожать

○ □□ любить □□□□□□□□□□□□□□□□

- 
- 
- Аня Анна
- Анна
- 
- 
- 
- 
- 
- 
- — И
- <https://magireco.com>
- 
- Fate/Zero
- 
- Наталья
- 
-