

Phonology

601.764

4/13/23

Phonetics

- ❖ Linguistic branch about how humans produce/receive sounds

Phone

- ❖ Distinct speech sound
- ❖ Not critical to the meaning of words

Phoneme

- ❖ Speech sound
- ❖ In a given language
- ❖ Can change meanings of words
- ❖ Phones language agnostic
- ❖ Phonemes language specific

Allophone

- ❖ Multiple phones that can be a single phoneme
- ❖ Hit
- ❖ Tip
- ❖ Little
- ❖ <https://www.britannica.com/topic/allophone>

2,400-2,600
years ago

पाणिनि

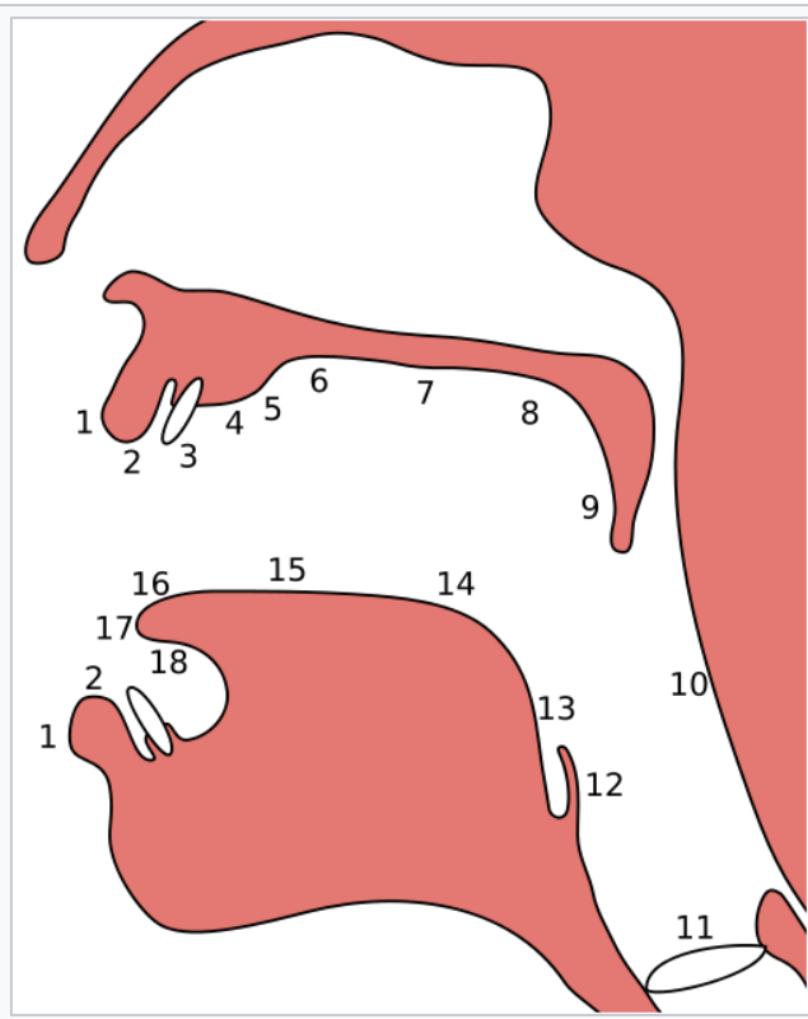


A representational statue of Pāṇini
at Panini Tapobhumi, Arghakhanchi
District of Nepal.

Wikipedia. Accessed 4/13/23

अष्टाध्यायी

रु० वा० ॥
 २ ॥
 आदिरंतेनसंहतायेनविधिस्तदेतस्योद्दिर्यस्याचामादिसद्गुरुंत्यदादीनि ॥ रु० वा० देशो॥
 ॥ चाल्यद्विराघ्नतवद्यथीभावप्रलयस्यतुक्षेवदशः ॥ इतिप्रथमोन्यायस्य
 गाह्मुद्यादिश्चौच्छिन्निन्निविजद्विविभाष्णिः सार्वधातुकमपिताभ्यसंगीगालित्वकित्वांधेभ
 वतिभ्यांचामृडमृद्युधकुष्ठिशवदवस्थाकारुद्विदमृष्यस्वपिष्ठः संस्थाइकोमत्वा
 हलंताच्चालित्वागमात्मनेपद्मुष्टुम्भ्रावागमः हनः संनुयमोगंधनोविभाषोपयमनोरमोद्या
 दिव्वानक्षासेष्टानिष्ठामृद्युस्विद्विदिष्ठषः मृष्यस्मितिद्युयोऽपुद्युपधाङ्गावादिक
 भणोरन्योतरस्योप्तः क्लावागोपधाल्फांताद्वावोलितुंयुतश्चात्मविम् अक्षेः काश्यपस्य
 इरलोयुपधाङ्गादिः संश्चक्लालेऽस्ववदीर्घपूतः ताचक्लाउचेत्तातः नीचेरनुदानःस्य
 माहास्वरितः तस्यादितुदात्ममर्धद्वयोऽक्षुत्तदूरत्वमुद्देश्यत्वमन्यूरस्वसाम
 ॥ ३ ॥
 सुउच्चेसरांवावषक्तारः विभाषालृद्विसानसुब्रह्मण्यायांस्वरितस्याद्वात्मवत्वमणोरनुदान
 अस्वरितात्मद्विनायाभन्तुदात्मानो उदात्मवितपरम्यमन्तरः ॥ एव अष्टकद्विकाल्प्रत्ययः तत्पु
 रषः समानाधिकरणः कर्मापारयः प्रथमानिर्दिष्टमासप्रसर्जनः एव कविभजित्वापविनिपा
 तेऽपर्थवदधातुरप्रत्ययः ध्रातिपादेऽक्लनद्वितसमाप्तामात्राहस्योनपुंसकं प्रातिपादिकस्या
 गोच्छियोरुपसर्जनस्यतुक्षितिलुकिद्वेष्याः लयियुक्तवद्विजिवनेविशेषणानांच
 जानेः तदशिष्यं संज्ञाप्रभाष्यतात्मात्मुच्योगप्रस्वानात् योगप्रभाषेवतदभावेऽर्शनस्यात्मप्रधा
 नप्रत्ययार्थवन्मर्थस्यान्यप्रभाष्यतात्मालोपसर्जनेचनुत्याजात्यारव्यायामेकस्मिन्
 बहुवचनस्यतरस्याऽपरमोद्योश्वाकल्पनीप्रोष्ठपदानांचनक्षत्रेः ॥ अद्य इति उनवेष्यो
 रैकवचने विभाषयत्प्रातिपृष्ठपुनर्वस्वोर्नस्तद्वद्वेबहुवचनस्यद्विवदः ॥ लिङ्गानां रूपाणा



Places of articulation (passive & active):

1. Exo-labial, 2. Endo-labial, 3. Dental, 4. Alveolar, 5. Post-alveolar, 6. Pre-palatal, 7. Palatal, 8. Velar, 9. Uvular, 10. Pharyngeal, 11. Glottal, 12. Epiglottal, 13. Radical, 14. Postero-dorsal, 15. Antero-dorsal, 16. Laminal, 17. Apical, 18. Sub-apical

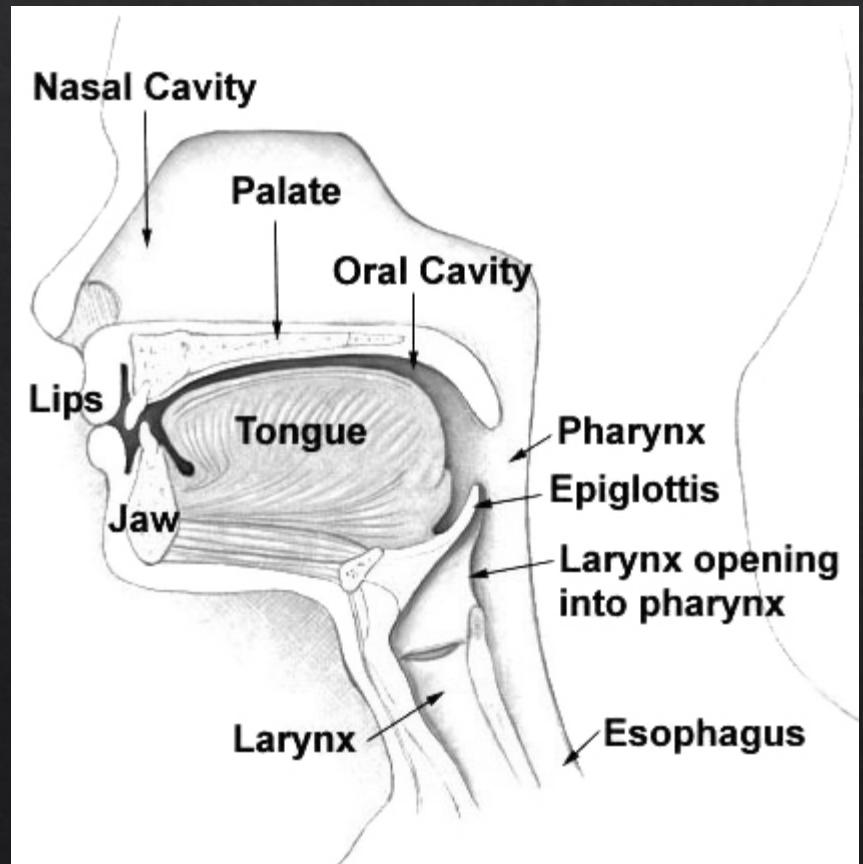
Places of Articulation

CONSONANTS (PULMONIC)

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	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		t d	c ʃ	k g	q ɢ		? ʔ
Nasal	m	m̪		n		n̪	n̪	ŋ	N		
Trill	B			r					R		
Tap or Flap		v̪		f̪		t̪					
Fricative	ɸ β	f v̪	θ ð	s z	ʃ ʒ	ʂ ʐ	ç j	x y	χ ʁ	h ɦ	h f̪
Lateral fricative				ɬ ɭ							
Approximant		v̪		ɹ̪		ɻ̪	j	w̪			
Lateral approximant				l̪		ɬ̪	ɻ̪	L			

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



<http://training.seer.cancer.gov/head-neck/anatomy/overview.html>

Articulation Video

- ❖ [https://en.wikipedia.org/wiki/File:Real-time_MRI_-_Speaking_\(English\).ogv](https://en.wikipedia.org/wiki/File:Real-time_MRI_-_Speaking_(English).ogv)



International Phonetic Association

ɪntə'naɛʃənəl fə'nætɪk ə'sousɪ'eɪʃn

- ❖ The International Phonetic Association (IPA) has been established as a Private Company limited by guarantee in the United Kingdom (incorporated on 30 June 2015).
- ❖ International Phonetic Alphabet (IPA)

Presidents of the IPA

2019-:	Michael Ashby
2015-19:	Patricia Keating
2011-15:	John Esling
2010-11:	none
2007-10:	Gösta Bruce (d. 2010)
2003-07:	John Wells
1999-03:	Klaus Kohler
1995-99:	John Ohala
1991-95:	John Laver
1985-91:	Peter Ladefoged
1984-85:	A. C. Gimson (d. 1985)
1977-83:	none listed in JIPA issues
1969-77:	S. K. (Suniti Kumar) Chatterji (d. May 1977)
1967-69:	none listed in <i>Le Maître Phonétique</i> (MF) issues
1950-67:	Daniel Jones
1940-50:	none listed in MF issues
1927-40:	Paul Passy (d. 1940)
1917-27:	none
(MF was not published 1915-22)	
1888-1917:	Wilhelm Viëtor (d. 1917) [Henry Sweet, Honorary President, 1888-1912]
1886-88:	Paul Passy [E. Oswald Kenyon, President of the Phonetic Teachers' Association (FTA), from January to April 1888]

Paul Passy

- ❖ Founder of IPA
- ❖ Helped create IPA
- ❖ Collins & Mees (1998, p. 48)



Otto Jespersen

in their articles. The idea of establishing a phonetic alphabet which should be applicable to all languages was first put forward by OTTO JESPERSEN in a letter to PAUL PASSY which was reproduced in *Dzi Fonètik Titcer*, June, 1886. This idea was taken up with enthusiasm



"The Principles of the International Phonetic Association: 1949". *Journal of the International Phonetic Association*. 40 (3): 299–358. 2010.

Supplément au journal l'**Instituteur sténographe**.
4, rue des Feuillantines, Paris

ðe

fonetik titcær

ði orgæn av ðe fonetik titcærz esoucieicæn

þoerd jir. — 7-8. — ðgæst-septembær 1888

256. **Froeken A. Arwedson**, skoleforerstendarinna, Linköping, Sverige (Palmgren).
257. **Dr. Schweingel**, cand. phil., Marburg, Deutschlant (Vietor).
258. **Adamovitch**, professeur, 31 B^e S. Michel, Paris (P. Passy).
259. **Gust. Bentfeldt**, catedrático de idiomas del Atenco, Tudescos 39, Madrid, Espana (P. Passy). — L
260. **J. H. Long**, Prinsipal ov the Collegiate Institute, Peterboro, Ontario, Canada (A. Hamilton).
261. **Alfred Westholm**, fil. kand., Vesterfernebo. Vestmanland, Sverige (D. Elfstrand).
262. **Baseler**, realschullehrer, Hanau, Deutschlant (M. Walter).
263. **Miss Laura Soames**, member ov the Brighton Scool Board, Marine Parade, Brighton, England (P. Passy).
- 264.

aur ridærz wil etwæns si ðæt wi v teikn ðe greit step ov dœblin ðe saiz ov ðe f. t., end ov tceinþin aur moud av trænskripcan. ðæt færst impruvment iz, þærhæps, ounli əpærænt ðis taim, far ðis icu ov ðe f. t. wil hæv ta dû servis far tú mœnhs. hweðar ða fæloin icuz wil hæv 8 or 16 peidziz mœst dipend apon ða nœmbør av njú sabskripcænz wi get; hæt wi þink aur ridærz mei rekn apon a 16-peidz peipar, regjularli, far nekst jir.

ði ælfabit, wi þink, iz nau setld fainali, ær far ær ða væljuz av ðe letærz gou. ðæt ceips øvkors admit av færðer impruvment : ðei wil dipend on ða rizælt av aur sabskripcæn, far hwitc st bilou.

wi mœst nau giv a mor ditéild əkaunt ov

aur rivæizd ælfabit.

in teûzin bitwin ðæt verjæs propouzlx ðæt hæv bin meid far rivæizin aur ælfabit, wi v bin gaidid bai ða fæloin prinsiplz, hwitc wi þink er admittid bai *moust* av aur ridærz ær isèncl tu a *præktikl* sistæm av fonetik spelin :

1° ðær cad bi a seprit sain far itc distintiv saund; ðæt iz, far itc saund hwitc, biin jùzd instæd av anæðær, in ðæt seim længwidz, kæn tceinz ðæt minin av a wœrd.

2° hwen eni saund z faund in sevral længwidz, ðæt seim sain cad bi jùzd in ɔl. ðis əplaiz ɔlso tæ veri similer ceidz av saund.

3° ði ælfabit eud kœsist ær mœtc ær posabl ev ði ordinari letærz ev ðæ roumen ælfabit; ær fjú njú letærz ær posabl blin jùzd.

4° in æsainin væljuz tæ ðæ roumen letærz, intærnæcænl jùzidz cæd disæid.

5° ðæ njú letærz cæd bi sæðestiv ev ðæ saundz ðei reprizent, bai ðær rizæmlans tæ ði ould wænz.

6° daiækritik marks cæd bi əvæidid, biin traïn for ði aiz on trœblsæm tæ rait.

in ekordæns, ær mœtc ær posabl, wið ðiz prinsiplz, wi v tcouzn ðæ fæloin list ov sainz (ðæ letærz markt wið a star* er proviðænl ceips, on wil bi ripleist hwen serkæmstæsiz wil elau).

ceip	vælju			
	iNglic	frænc	dæermæn	æðer længwidz
p	az in	put	pas	pferd
b		but	bas	boot
t		ten	tant	tot
d		den	dent	da
k		kind	képi	kuh
g		good	gai	gut
m		my	ma	mein
n		no	non	nein
N			règne	ital. regno.
'N	thing		ding	ital. anche.
l	full	la	lang	
'f		fille (in ðæ sauð)		sp. llano, ital. gli.
r	red	rare	rot	(tœn-point r)
R		rare	rot	(bak r). — dan. træ
U			quer	flem. wrocht, span. bibir.
Q		buis		
w	wel	oui		ital. questo
f	full	fou	voll	
v	vain	vin	wein	
θ	thin			span. razon
ð	then			dan. gade
s	seal	sel	weiss	
z	zeal	zèle	weise	
'c	she	chat	fisch	swed. skæl, dan. sjæl, ital. lascia
ɔ	leisure	jeu	genie	
ç			ich	
j	you	yak	ja	swed. ja, ital. jena.
x			ach	span. jota
q			wagen	

h	high	(haut)	hoch
u	full	cou	nuss
o	soul	pot	soll
ɔ	not	note	ital. notte
A		pas	vater swid. sal
*a	father		ital. mano, swid. mann.
a	eye, how	palte	mann
æ	man		
r	air	air	bær
e	men	né	nett
i	pit	ni	mit
*œ	but, fur		
œ		seul	kennen
*œ		peu	søhne
y		nu	dünn
*ü			für
ə	never	je	gabe
.	glotl kætc		
-u, u-,	wik strest u		
-u, u', û,	STRON strest u		
u:,	lon u		
æ	neizl œ (ør eni œðær vauel)		
û	lon æn næro u (ør eni œðær vauel)		
hl, lh	voislis l (ør eni œðær konsanænt)		
:	mark øv lenθ.		
			ðiz mððifikeicænz
			əplai
			tu ɔl letærz

in júzin ðis ælfabit, aur körispóndants wil pliz ber in maind ðe fóloin points.

1°. — Ðouz mððifikéicænz øv saundz ðæt ør *nesisri* in eni givn pozicæn in eni længwidð ør kænsidærd øz *implaid*. Ðæs ðæ gløtl kætc iz *implaid* bisfør eni infcl vauel in dðærmæn. Ðæ mark øv lenθ in *implaid*, in inglec øn dðærmæn, astor “e”; in inglec astor “a”, in dðærmæn astor “A”; in frenc, astor aksentid vauelz bisfør fainl *v*, *z*, *ʒ*, *j*, *r*, øn bisfør œðær fainl konsanænts astor o, A, œ, ð, ã, ē, œ; in itæljæn, astor evri aksentid vauel in ø cæt silæbl.

2°. — Stres, hwen not œðærwiz markt, iz səpouzd ta bi øn ðæ færst silæbl øv a wærd ør stres-grúp in inglec øn dðærmæn, øn ðæ last in frenc; øn ðæ bisfør-last in spænic and itæljæn.

3°. — Itc ðæt iz not ounli elaud, bæt invætid ta júz hiz oun ørðoeipi. In ðis wei wi houp ta faind a definit ansæt ta ðæ vekst kwæstionænz: dialekt ør næcanl prænænsieicæn? hwitc dialekt? hwitc stændord øv næcanl pro-

nænsieicæn? ful strest ør wærd formz øv wærdz? wærd diviðæn ør stres diviðæn? itsétræ.

Wi beg aur körispóndants tu interpret ðis ræl in its moust libral sens. Wi cæd laik skótemæn ta rait *mft*, *mæk*, *nbt*, *pùl*, *hfr*, *pùr*, *môr*, øn leñdænerz ta rait *mijt*, *meik*, *nout*, *puwl*, *hið*, *puø*, *mðø*. Pærizjæn mait rait *pase*, *RAR*, *fij*, *tskaje*, *geR*, *om*, *fij*; soðærerz *pase*, *rarø*, *tskalje*, *gerrø*, *ðmø*, *fñø*. In editorjæl artiklz, itsétræ, wi intènd, øz mætc øz posabl, ta fælo ø midl kors bitwin ikstrim prænænsieicænz, øz wi v ðlwiz træid ta dñ hiðærtu.

sæbskripçæn

før kastin njù taips

Dr. F. Beyer, Weissenfels.....	2 fr.
Herr Max Walter, Wiesbaden.....	2 fr.
C. E. Dormer, London.....	6 fr. 25
P. Passy, Neuilli.....	5 fr.
Miss L. Soames, Brighton	25 fr.

ðæ taips wi intènd ta hæv kast ør ful-saizd e, n wið øteil, roumænaizd a, lon s (før c), krøst o (før œ). Wi houp ta hæv ø part øv ðiz redi bai nekst icu.

aur treðæræ.

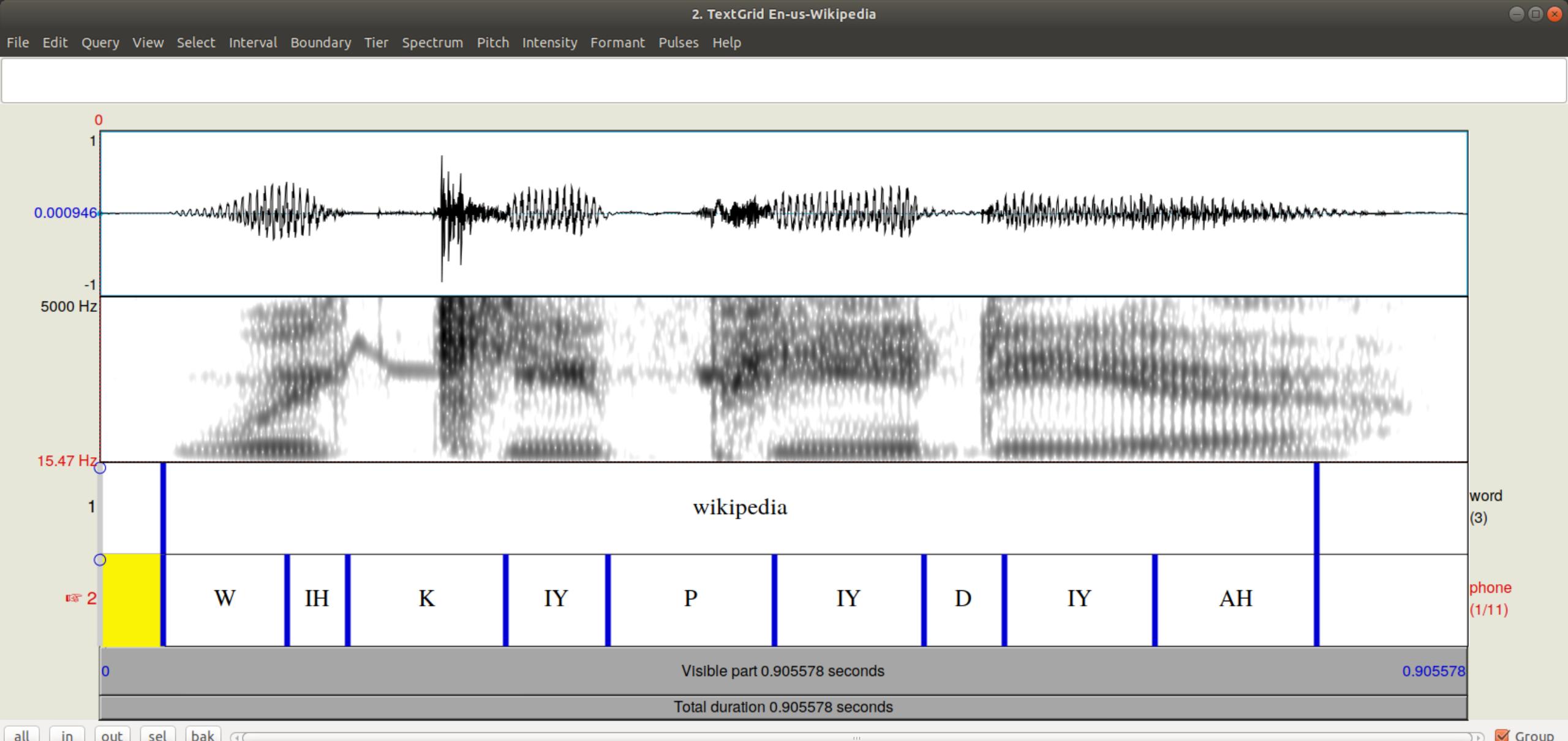
Wi v nou læk wið aur treðæræ, ðis jir : astor Mr. Bruce, Mr. Kenyon iz abaut ta liv øes. ðis iz hwæt hi raits :

Paris, dðulái ðæ 21st 1888,
dir sær,
æz ai m in deili ekspektéicæn øv blin rikold ta leñdæn, ai m særí te bi oblaiddød te giv øp ðæ treðæræcip øv ðæ fonætik tætcæz æsouciéicæn.

jorz feiðfeli,

E. OSWALD KENYON.

In konsækwæns, ði editær øv ðæ f. t. hez teikn in hænd ðæ mæniz øv ðæ f. t. a., øn wil kip ðæm æntil ø njù treðæræ bi æpointid. Ta him, ðen, sæbskripçæn cæd bi sent, fær ðæ preznt. ði æpointin øv ø njù treðæræ mæs bi put ø til astor ði holidiz.



The waveform, spectrogram, and transcription of the word "wikipedia" pronounced by an American English speaker viewed in Praat running on Ubuntu 18.04.3. The settings for the spectrogram are a view range from 0 to 5000 Hertz, a window length of 0.005 seconds, and a dynamic range of 50 decibels.

The audio comes from [File:En-us-Wikipedia.ogg](#). The transcription comes from the Carnegie Mellon University Pronouncing Dictionary and the individual sounds are time-aligned with the audio.

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

CONSONANTS (PULMONIC)

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b		t d		t̪ d̪	c j	k g	q ɣ		?	
Nasal	m	n̪		n		ɳ	jn̪	ɳj		N	
Trill	B			r						R	
Tap or Flap		v̪		r̪		ʈ̪					
Fricative	f̪ β̪	f v̪	θ̪ ð̪	s z̪	ʃ̪ ʒ̪	s̪ z̪	ç̪ j̪	x̪ ɣ̪	χ̪ ʁ̪	ħ̪ ʕ̪	h̪ ɦ̪
Lateral fricative				ɬ̪ ɺ̪							
Approximant		u̪		ɹ̪		ɻ̪	ɻ̪	ɻ̪	ɻ̪		
Lateral approximant				l̪		ɻ̪	ɻ̪	ɻ̪	ɻ̪		

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	b̪ Bilabial	,
Dental	d̪ Dental/alveolar	p̪ Bilabial
! (Post)alveolar	f̪ Palatal	t̪ Dental/alveolar
ǂ Palatoalveolar	g̪ Velar	k̪ Velar
Alveolar lateral	g̪' Uvular	s̪' Alveolar fricative

OTHER SYMBOLS

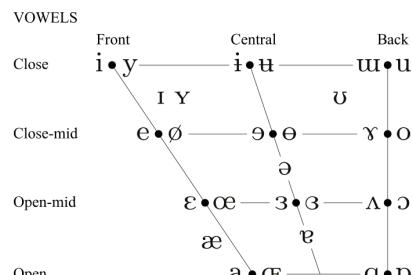
ʍ Voiceless labial-velar fricative	ç ʐ Alveolo-palatal fricatives
W Voiced labial-velar approximant	ɿ Voiced alveolar lateral flap
ɥ Voiced labial-palatal approximant	ʃ ʂ Simultaneous ʃ and X
H Voiceless epiglottal fricative	Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.
ɸ Voiced epiglottal fricative	
ʢ Epiglottal plosive	

DIACRITICS

° Voiceless	n̪ d̪	.. Breathy voiced	b̪ a̪	□ Dental	t̪ d̪
~ Voiced	s̪ t̪	~ Creaky voiced	b̪ a̪	□ Apical	t̪ d̪
h Aspirated	t̪ʰ d̪ʰ	~ Linguolabial	t̪̩ d̪̩	□ Laminal	t̪̩ d̪̩
ɔ More rounded	ɔ̪	~ Labialized	t̪ʷ d̪ʷ	~ Nasalized	ɛ̪
ɔ Less rounded	ɔ̪	ɔ̪ Palatalized	t̪ɔ̪ d̪ɔ̪	□ Nasal release	d̪ʰ
+ Advanced	u̪	Y̪ Velarized	t̪Y̪ d̪Y̪	□ Lateral release	d̪¹
- Retracted	e̪	f̪ Pharyngealized	t̪f̪ d̪f̪	~ No audible release	d̪⁷
** Centralized	œ̪	~ Velarized or pharyngealized	œ̪		
✗ Mid-centralized	ɛ̪	~ Raised	ɛ̪ (ɛ̪ = voiced alveolar fricative)		
˩ Syllabic	n̪	~ Lowered	e̪ (β̪ = voiced bilabial approximant)		
˥ Non-syllabic	e̪	Advanced Tongue Root	ɛ̪		
˨ Rhoticity	ə̪ ə̪	Retracted Tongue Root	ə̪		

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

© 2020 IPA



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

SUPRASEGMENTALS

' Primary stress	founə́ tʃən̪
'' Secondary stress	
ː Long	eː
ˑ Half-long	eˑ
ˑ Extra-short	é
՝ Minor (foot) group	
՚ Major (intonation) group	
։ Syllable break	.i.ækt
՝ Linking (absence of a break)	

TONES AND WORD ACCENTS

LEVEL	CONTOUR
é or ՚	Extra high
é	High
é	Mid
é	Low
é	Extra low
↓	Downstep
↑	Upstep
՞	Rising
՞	Falling
՞	High rising
՞	Low rising
՞	Rising-falling
՞	Global rise
՞	Global fall

CONSONANTS (PULMONIC)

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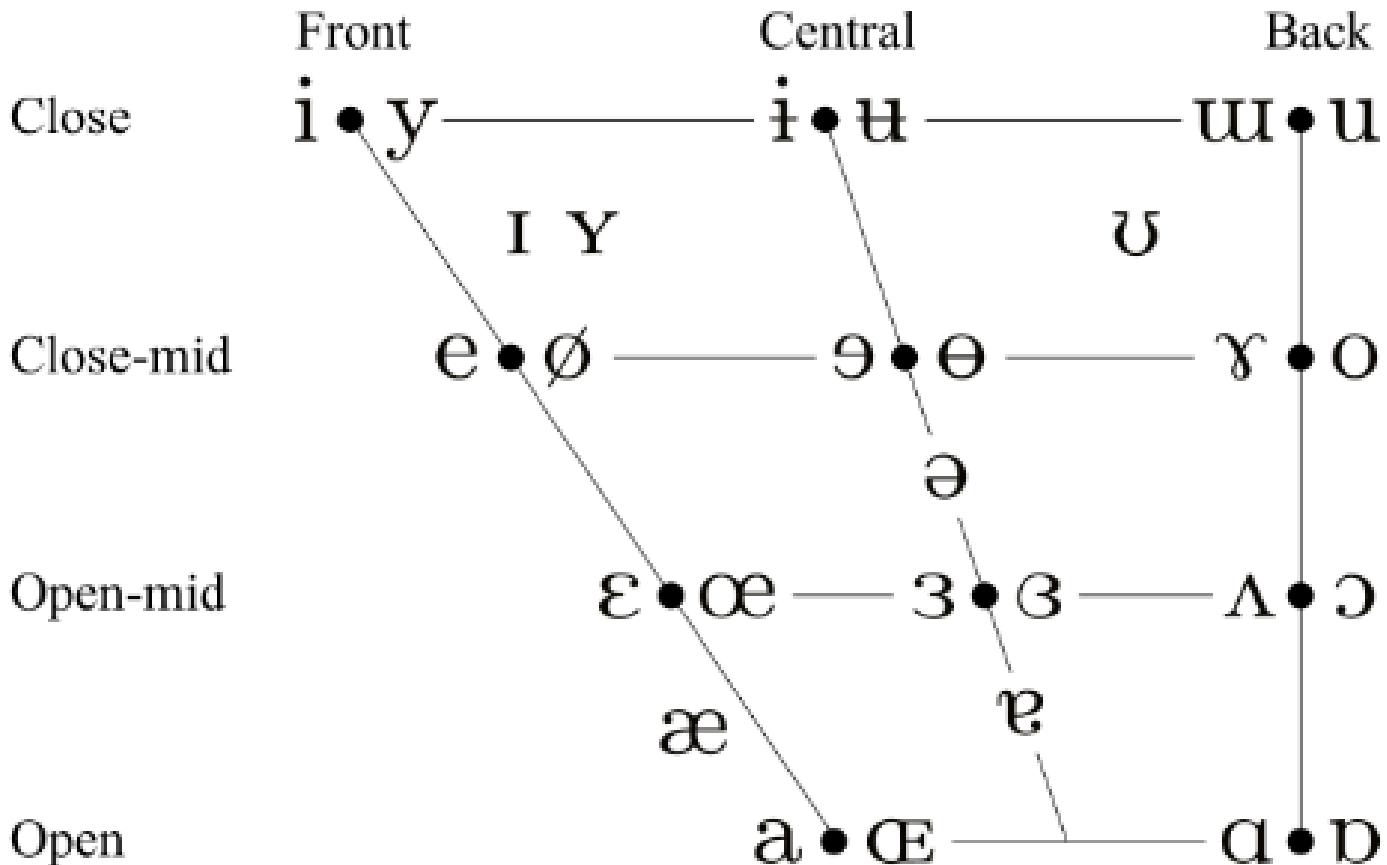
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		t d	c j	k g	q G		?
Nasal	m	m̪		n		n̪	n̥	n̫	N		
Trill	B			r					R		
Tap or Flap		v̪		f		t̪					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	s z̪	ç j	x y	χ w	ħ ʕ	h f̪
Lateral fricative				ɬ ɺ							
Approximant		v̪		r̪		r̪	j̪	w̪			
Lateral approximant				l̪		l̪	ʎ̪	L̪			

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	b Bilabial	' Examples:
Dental	d Dental/alveolar	p' Bilabial
! (Post)alveolar	f Palatal	t' Dental/alveolar
ǂ Palatoalveolar	g Velar	k' Velar
Alveolar lateral	G Uvular	s' Alveolar fricative

VOWELS



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

Rounded

- ❖ Lips rounded
- ❖ Toon
- ❖ Teen

velarization

phonetics

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⋮

Written and fact-checked by [The Editors of Encyclopaedia Britannica](#)

Last Updated: [Article History](#)

velarization, in [phonetics](#), secondary articulation in the [pronunciation](#) of consonants, in which the [tongue](#) is drawn far up and back in the mouth (toward the velum, or [soft palate](#)), as if to pronounce a back [vowel](#) such as *o* or *u*. Velarization is not phonemic in English, although for most English speakers the *l* in “feel” is velarized, but the *l* in “leaf” is not. It is distinctive in some languages (*e.g.*, Arabic). Velarized consonants may be distinguished from velar consonants, in which the primary [articulation](#) involves the back of the tongue and the velum; in velarized consonants there must always be some other primary articulation.

Related Topics: [articulation](#) • [velar consonant](#)

[See all related content →](#)

Vowels

Show English Vowels Only

Show All Vowels

		Front	Central	Back
		i		u
High		I		ʊ
Mid	Tense	e		o
	Lax	ɛ	ə ʌ	(ɔ)
Low	Lax	æ	a	

Consonants

Show English Consonants Only

Show All Consonants

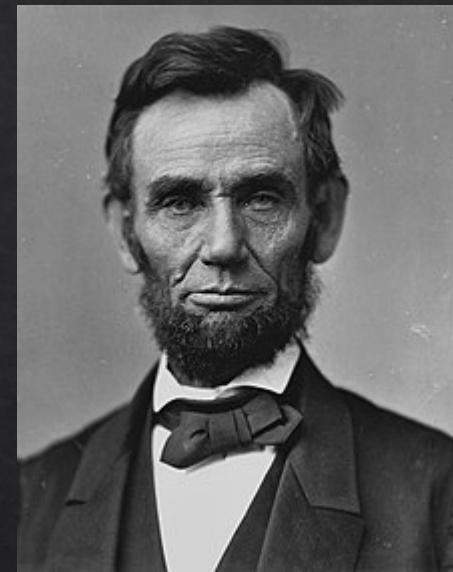
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Palatal	Velar	Glottal
(Oral) Stop	p b			t d			k g ?	
(Nasal) Stop	m			n			ŋ	
Tap or Flap				r				
Affricate				tʃ dʒ				
Fricative	f v	θ ð	s z	ʃ ʒ			h	
Approximant	w			j			j w	
Lateral approximant				l				

Online Example

- ❖ <https://www.cambridge.org/features/IPAchart/>

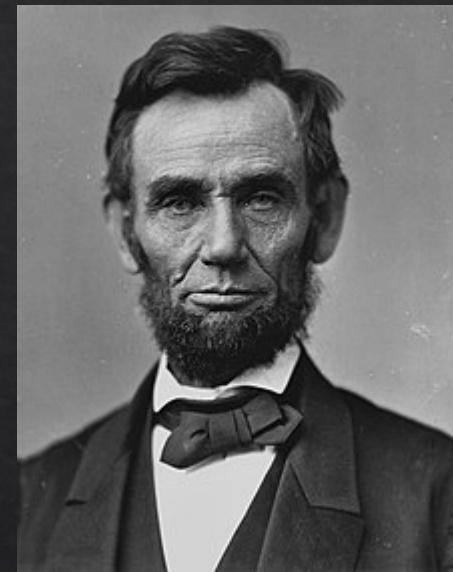
Let's Try it Out

❖ Lincoln



Let's Try it Out

- ❖ Lincoln
- ❖ /'lɪŋkən/



Let's Try it Out

❖ Baltimore

Baltimore

Independent city



The [Inner Harbor](#) skyline



[Fell's Point](#)



[Baltimore City Hall](#)



[Emerson Tower](#)



[Washington and Lafayette Monuments](#)



[National Aquarium](#)

Let's Try it Out

- ❖ Baltimore
- ❖ /'bɔltmɔ:r/

Baltimore

Independent city



The [Inner Harbor](#) skyline



[Fell's Point](#)



[Baltimore City Hall](#)



[Emerson Tower](#)



[Washington and Lafayette Monuments](#)



[National Aquarium](#)

Let's Try it Out

❖ Condoleezza



Let's Try it Out

- ❖ Condoleezza
- ❖ /kəndə'li:zə/



Let's Try it Out

❖ Emmanuel Macron



Let's Try it Out

- ❖ Emmanuel Macron
- ❖ [emmanuel makron]



Let's Try it Out

❖ Link

Let's Try it Out

- ❖ https://en.wikipedia.org/wiki/File:Rishi_Sunak_Pronunciation.ogg
- ❖ /'rɪʃi 'su:næk/



Let's Try it Out

❖ Link

Let's Try it Out

❖ La Belgique (/bɛlʒik/)

Royaume de Belgique

(n1) ***Koninkrijk België***

(de) ***Königreich Belgien***



Drapeau de la Belgique



Armoiries de la Belgique

Let's Try it Out

Let's Try it Out

❖ ['svæ̊rjə]



Let's Try it Out

Let's Try it Out

- ❖ narendra damodar das modi:

