

ANSWER KEY FOR PHONETIC CHARTS

# *Phonetic Readings for Lyric Diction*

An enunciation and transcription workbook that employs frequently occurring words from English, Italian, German, French, and Latin lyrics

Cheri Montgomery

THIRD EDITION

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Technical Support: Verlan Kliewer

# PHONETIC CHARTS

Refer to page 2 of the *IPA Handbook for Singers* to complete the following exercises.

**MATCHING:** Indicate the voiceless counterpart for each voiced consonant symbol listed below. Both consonants share the same articulatory position.

Voiced Consonant	Voiceless Consonant
[b]	<b>[p]</b>
[w]	<b>[ʍ]</b>
[v]	<b>[f]</b>
[ð]	<b>[θ]</b>
[dz]	<b>[tʃ]</b>

Voiced Consonant	Voiceless Consonant
[d]	<b>[t]</b>
[z]	<b>[s]</b>
[ʒ]	<b>[ç]</b>
[dʒ]	<b>[tʃ]</b>
[g]	<b>[k]</b>

**WRITTEN EXERCISE:** Match consonants with the articulatory point of contact.

- |                |                           |             |
|----------------|---------------------------|-------------|
| 1. Bilabial    | <u><b>[b]</b></u>         | [g]         |
| 2. Labiodental | <u><b>[v]</b></u>         | [ʃ]         |
| 3. Dental      | <u><b>[ð]</b></u>         | [ç]         |
| 4. Alveolar    | <u><b>English [n]</b></u> | English [ð] |
| 5. Prepalatal  | <u><b>[ʃ]</b></u>         | [h]         |
| 6. Palatal     | <u><b>[ç]</b></u>         | English [n] |
| 7. Velar       | <u><b>[g]</b></u>         | [v]         |
| 8. Glottal     | <u><b>[h]</b></u>         | [b]         |



**MATCHING:** Match the IPA symbol with the manner of articulation.

- |                                      |             |
|--------------------------------------|-------------|
| 1. <u><b>English [t]</b></u> Stop    | [f]         |
| 2. <u><b>Italian [d]</b></u> Plosive | [m]         |
| 3. <u><b>[f]</b></u> Fricative       | [l]         |
| 4. <u><b>[tʃ]</b></u> Affricate      | [ɹ]         |
| 5. <u><b>[m]</b></u> Nasal           | English [t] |
| 6. <u><b>[l]</b></u> Lateral         | [r]         |
| 7. <u><b>[w]</b></u> Glide           | [tʃ]        |
| 8. <u><b>[r]</b></u> Trill           | [w]         |
| 9. <u><b>[ɹ]</b></u> Retroflex       | Italian [d] |



# ITALIAN PHONETIC CHARTS: Dental and plosive consonants, closed front [i] and bright [a]

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[i] Closed front	<b>Non-glottal</b>	Touching <b>lower front teeth</b>	<b>Sides contact the length of the upper molars (to the eye teeth)</b>	Neither rounded nor spread	<b>Released</b>	<b>Raised</b>
[a] Bright "ah"	<b>Non-glottal</b>	Touching <b>lower front teeth</b>	<b>The tongue lies low on the floor of the mouth</b>	Neither rounded nor spread	<b>Released</b>	<b>Raised</b>

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[d] Dental	<b>YES</b> / NO	<b>Plosive</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[t] Dental	YES / <b>NO</b>	<b>Plosive</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[n] Dental	<b>YES</b> / NO	<b>Nasal</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Lowered to meet tongue</b>
[l] Dental	<b>YES</b> / NO	<b>Lateral</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[r] [r] Dental	<b>YES</b> / NO	<b>Trill</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[b] Bilabial	<b>YES</b> / NO	<b>Plosive</b>	Touching <b>lower front teeth</b>	Sides contact the <b>lower molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[p] Bilabial	YES / <b>NO</b>	<b>Plosive</b>	Touching <b>lower front teeth</b>	Sides contact the <b>lower molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[g] Velar	<b>YES</b> / NO	<b>Plosive</b>	Touching <b>lower front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[k] Velar	YES / <b>NO</b>	<b>Plosive</b>	Touching <b>lower front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[z] Dental	<b>YES</b> / NO	<b>Fricative</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[s] Dental	YES / <b>NO</b>	<b>Fricative</b>	Touching <b>upper front teeth</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[v] Labiodental	<b>YES</b> / NO	<b>Fricative</b>	Touching <b>lower front teeth</b>	Sides contact the <b>lower molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>
[f] Labiodental	YES / <b>NO</b>	<b>Fricative</b>	Touching <b>lower front teeth</b>	Sides contact the <b>lower molars</b>	In the shape of the following vowel	<b>Released</b>	<b>Raised</b>

## ITALIAN PHONETIC CHARTS: Prepalatal affricates, velar [ŋ], closed front [e], and open front [ɛ]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[e] Closed front	Non-glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[ɛ] Open front	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[j] Glide	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[dʒ] Prepalatal	<u>YES</u> / NO	Affricate	Touching prepalatal area	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[tʃ] Prepalatal	YES / <u>NO</u>	Affricate	Touching prepalatal area	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[ŋ] Velar	<u>YES</u> / NO	Nasal	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Lowered to meet tongue

Italian, chapter 2

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## ITALIAN PHONETIC CHARTS: Prepalatal [ʎ] and [ɲ], voiced double consonants, and closed back [u]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[u] Closed back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ʎʎ] Prepalatal	<u>YES</u> / NO	Lateral	Touching lower front teeth	Sides contact the length of the upper molars	In the shape of the following vowel	Released	Raised
[ɲɲ] Prepalatal	<u>YES</u> / NO	Nasal	Touching lower front teeth	Sides contact the length of the upper molars	In the shape of the following vowel	Released	Lowered to meet tongue

Italian, chapter 3

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## ITALIAN PHONETIC CHART: The [w] glide, closed back [o], and open back [ɔ]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[o] Closed back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[ɔ] Open back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[w] Glide	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

Italian, chapter 4

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## ITALIAN PHONETIC CHART: Double consonant stops and voiceless double consonant fricatives

Refer to the *IPA Handbook for Singers* to complete the following chart

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ʃʃ] Palatal	YES / <b>NO</b>	Fricative	Touching palate	Sides contact the upper molars	In the shape of the following vowel	Released	Raised

Italian, chapter 5

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# GERMAN PHONETIC CHARTS: Closed vowels, dark [ɑ], and German consonants

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[i:] Closed front	Glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[e:] Closed front	Glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[u:] Closed back	Glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[o:] Closed back	Glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[ɑ:] Dark "ah"	Glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Neither rounded nor spread	Released	Raised
[ʁ] Vowel "r"	Non-Glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Rounding initiated by cheek muscles	Released	Raised

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[d] Alveolar	<u>YES</u> / NO	Stop	Touching the alveolar ridge	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[t] Alveolar	YES / <u>NO</u>	Stop	Touching the alveolar ridge	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[l] Dental	<u>YES</u> / NO	Lateral	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[r] Dental	<u>YES</u> / NO	Trill	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[b] Bilabial	<u>YES</u> / NO	Stop	Touching lower front teeth	Sides contact the lower molars	In the shape of the following vowel	Released	Raised
[p] Bilabial	YES / <u>NO</u>	Stop	Touching lower front teeth	Sides contact the lower molars	In the shape of the following vowel	Released	Raised
[g] Velar	<u>YES</u> / NO	Stop	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[k] Velar	YES / <u>NO</u>	Stop	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised



## GERMAN PHONETIC CHART: Open vowels and bright [a]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ɪ] Open front	Glottal	Touching <b>lower</b> front teeth	Sides contact the <b>upper molars</b>	Neither rounded nor spread	Released	Raised
[ɛ] Open front	Glottal	Touching <b>lower</b> front teeth	Sides contact the <b>upper molars</b>	Neither rounded nor spread	Released	Raised
[ʊ] Open back	Glottal	Touching <b>lower</b> front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[ɔ] Open back	Glottal	Touching <b>lower</b> front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[a] Bright "ah"	Glottal	Touching <b>lower</b> front teeth	The tongue lies low on the floor of the mouth	Neither rounded nor spread	Released	Raised

German, chapter 2

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## GERMAN PHONETIC CHART: Double consonants, the [j] glide, prepalatal [ʃ], and velar [ŋ]

Refer to the *IPA Handbook for Singers* to complete the following chart

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ʃ] Prepalatal	YES / <b>NO</b>	<b>Fricative</b>	Touching <b>prepalatal area</b>	Sides contact the <b>upper molars</b>	In the shape of the following vowel	Released	Raised
[ŋ] Velar	<b>YES</b> / NO	<b>Nasal</b>	Touching <b>lower</b> front teeth	Sides contact the <b>upper molars</b>	In the shape of the following vowel	Released	Lowered to meet tongue
[j]	<b>YES</b> / NO	<b>Glide</b>	Touching <b>lower</b> front teeth	Sides contact the <b>upper molars</b>	In the shape of the following vowel	Released	Raised

German, chapter 3

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# GERMAN CHAPTER 4 MIXED VOWELS

## GERMAN PHONETIC CHART

Refer to the *IPA Handbook for Singers* to complete the following chart:

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[y:] Closed mixed	Glottal	Touching lower front teeth	Sides contact the upper molars (to eye teeth)	Rounding initiated by cheek muscles	Released	Raised
[ʏ] Open mixed	Glottal	Touching lower front teeth	Sides contact the upper molars	Rounding initiated by cheek muscles	Released	Raised
[ø:] Closed mixed	Glottal	Touching lower front teeth	Sides contact the upper molars (to eye teeth)	Rounding initiated by cheek muscles	Released	Raised
[œ] Open mixed	Glottal	Touching lower front teeth	Sides contact the upper molars	Rounding initiated by cheek muscles	Released	Raised

German, chapter 4

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## GERMAN PHONETIC CHART: German Diphthongs, *ich*-Laut and *ach*-Laut

Refer to the *IPA Handbook for Singers* to complete the following chart

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ç] Prepalatal	YES / <u>NO</u>	Fricative	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[χ] Velar	YES / <u>NO</u>	Fricative	Touching lower front teeth	The middle of the tongue arches toward the soft palate	In the shape of the following vowel	Released	Raised

German, chapter 5

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# FRENCH PHONETIC CHARTS : Dentals, plosives, [w] glide, closed front [i] and [e], and bright [a]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[i] Closed front	Non-glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[e] Closed front	Non-glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[a] Bright "ah"	Non-glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Neither rounded nor spread	Released	Raised
[w] Glide	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[d] Dental	<u>YES</u> / NO	Plosive	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[t] Dental	YES / <u>NO</u>	Plosive	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[n] Dental	<u>YES</u> / NO	Nasal	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Lowered to meet tongue
[l] Dental	<u>YES</u> / NO	Lateral	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[r] Dental	<u>YES</u> / NO	Trill	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[b] Bilabial	<u>YES</u> / NO	Plosive	Touching lower front teeth	Sides contact the lower molars	In the shape of the following vowel	Released	Raised
[p] Bilabial	YES / <u>NO</u>	Plosive	Touching lower front teeth	Sides contact the lower molars	In the shape of the following vowel	Released	Raised
[g] Velar	<u>YES</u> / NO	Plosive	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[k] Velar	YES / <u>NO</u>	Plosive	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised

## FRENCH PHONETIC CHART: The [j] glide, open front [ɛ], and semi-open front [ɛ̃]

Refer to the *IPA Handbook for Singers* to complete the following chart

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ɛ] Open front	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[ɛ̃] Semi-open	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[j] Glide	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised

French, chapter 2

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## FRENCH PHONETIC CHARTS: Prepalatal [ʃ], [ʒ], and [ɲ], back vowels, and dark [ɑ]

Refer to the *IPA Handbook for Singers* to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[u] Closed back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[o] Closed back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[ɔ] Open back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[ɑ] Dark "ah"	Non-glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Neither rounded nor spread	Released	Raised

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ʒ] Prepalatal	<u>YES</u> / NO	Fricative	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[ʃ] Prepalatal	YES / <u>NO</u>	Fricative	Touching upper front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Raised
[ɲ] Prepalatal	<u>YES</u> / NO	Nasal	Touching lower front teeth	Sides contact the upper molars	In the shape of the following vowel	Released	Lowered to meet tongue

French, chapter 3

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## FRENCH PHONETIC CHART: The [ɥ] glide and closed mixed [y]

Refer to the *IPA Handbook for Singers* to complete the following chart

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[y] Closed mixed	Non-glottal	Touching lower front teeth	Sides contact the upper molars (to eye teeth)	Rounding initiated by cheek muscles	Released	Raised
[ɥ] Glide	Non-glottal	Touching lower front teeth	Sides contact the upper molars (to eye teeth)	Rounding initiated by cheek muscles	Released	Raised
[j] Glide	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[w] Glide	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

French, chapter 4

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## FRENCH PHONETIC CHART: Closed mixed [ø], open mixed [œ], and the schwa [ə]

Refer to the *IPA Handbook for Singers* to complete the following chart

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ø] Closed mixed	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Rounding initiated by cheek muscles	Released	Raised
[œ] Open mixed	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Rounding initiated by cheek muscles	Released	Raised

French, chapter 5

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## FRENCH PHONETIC CHART: Dark nasal [ɑ̃] and closed back nasal [ɔ̃]

Refer to the *IPA Handbook for Singers* to complete the following chart

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ɑ̃] Dark "ah" nasal	Non-glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Rounding initiated by cheek muscles: [ɔ]	Released	Raised
[ɔ̃] Closed [o] nasal	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

French, chapter 6

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## FRENCH PHONETIC CHART: Open front nasal [ɛ̃] and open mixed nasal [œ̃]

Refer to the *IPA Handbook for Singers* to complete the following chart

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ɛ̃] Open [ɛ] nasal	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[œ̃] Open [œ] nasal	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Rounding initiated by cheek muscles	Released	Raised

French, chapter 7

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## LATIN PHONETIC CHARTS : Closed front [i], closed back [u], and dark [a]

Refer to the *IPA Handbook for Singers* (Italian enunciation instructions) to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[i] Closed front	Non-glottal	Touching lower front teeth	Sides contact the length of the upper molars (to the eye teeth)	Neither rounded nor spread	Released	Raised
[u] Closed back	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised
[a] Dark "ah"	Non-glottal	Touching lower front teeth	The tongue lies low on the floor of the mouth	Neither rounded nor spread	Released	Raised
[j] Glide	Non-glottal	Touching lower front teeth	Sides contact the upper molars	Neither rounded nor spread	Released	Raised
[w] Glide	Non-glottal	Touching lower front teeth	The middle of the tongue arches toward the soft palate	Rounding initiated by cheek muscles	Released	Raised

Latin, chapter 1

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# LATIN PHONETIC CHARTS : Closed front [i], closed back [u], and dark [ɑ]

Refer to the *IPA Handbook for Singers* (Italian enunciation instructions) to complete the following charts

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[d] Dental	<u>YES</u> / NO	<b>Plosive</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[t] Dental	YES / <u>NO</u>	<b>Plosive</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[n] Dental	<u>YES</u> / NO	<b>Nasal</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Lowered to meet tongue
[l] Dental	<u>YES</u> / NO	<b>Lateral</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[r] Dental	<u>YES</u> / NO	<b>Trill</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[ɲ] Prepalatal	<u>YES</u> / NO	<b>Nasal</b>	Touching <b>lower</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Lowered to meet tongue
[dʒ] [tʃ] Prepalatal	<u>YES</u> / <u>NO</u>	<b>Affricate</b>	Touching <b>upper</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[b] Bilabial	<u>YES</u> / NO	<b>Plosive</b>	Touching <b>lower</b> front teeth	Sides contact the <b>lower</b> molars	In the shape of the following vowel	Released	Raised
[p] Bilabial	YES / <u>NO</u>	<b>Plosive</b>	Touching <b>lower</b> front teeth	Sides contact the <b>lower</b> molars	In the shape of the following vowel	Released	Raised
[g] Velar	<u>YES</u> / NO	<b>Plosive</b>	Touching <b>lower</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised
[k] Velar	YES / <u>NO</u>	<b>Plosive</b>	Touching <b>lower</b> front teeth	Sides contact the <b>upper</b> molars	In the shape of the following vowel	Released	Raised

# LATIN PHONETIC CHART: Open front [ɛ] and open back [ɔ]

Refer to the *IPA Handbook for Singers* (Italian enunciation instructions) to complete the following charts

VOWELS						
IPA Symbol	Onset	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[ɛ] Open front	<b>Non-glottal</b>	Touching <b>lower front teeth</b>	<b>Sides contact the upper molars</b>	<b>Neither rounded nor spread</b>	<b>Released</b>	<b>Raised</b>
[ɔ] Open back	<b>Non-glottal</b>	Touching <b>lower front teeth</b>	<b>The middle of the tongue arches toward the soft palate</b>	<b>Rounding initiated by cheek muscles</b>	<b>Released</b>	<b>Raised</b>

CONSONANTS							
IPA	Voiced	Manner of Articulation	Tongue Tip	Sides of Tongue and Arch	Lip Position	Jaw Position	Soft Palate
[r] Dental	<b>YES</b> / NO	<b>Trill</b>	Touching <b>upper front teeth</b>	<b>Sides contact the upper molars</b>	<b>In the shape of the following vowel</b>	<b>Released</b>	<b>Raised</b>
[ŋ] Velar	<b>YES</b> / NO	<b>Nasal</b>	Touching <b>lower front teeth</b>	<b>Sides contact the upper molars</b>	<b>In the shape of the following vowel</b>	<b>Released</b>	<b>Lowered to meet tongue</b>



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