

Chord to Note

Example 1: Print all chords in C major and C minor.

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py C -a
I : ['C', 'E', 'G']
bII : ['D♭', 'F', 'A♭']
II : ['D', 'F', 'A']
II7 : ['D', 'F', 'A', 'C']
III : ['E', 'G', 'B']
IV : ['F', 'A', 'C']
V : ['G', 'B', 'D']
V7 : ['G', 'B', 'D', 'F']
bVI : ['A♭', 'C', 'E♭']
GerVI : ['A♭', 'C', 'E♭', 'F#']
FrVI : ['A♭', 'C', 'D', 'F#']
ItVI : ['A♭', 'C', 'F#']
VI : ['A', 'C', 'E']
VI7 : ['A', 'C', 'E', 'G']
VII dim : ['B', 'D', 'F']
VII dim5 : ['B', 'D', 'F', 'A']
VII dim7 : ['B', 'D', 'F', 'A♭']

C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py c -a
I : ['C', 'E♭', 'G']
I+ : ['C', 'E', 'G']
bII : ['D♭', 'F', 'A♭']
II dim : ['D', 'F', 'A♭']
II dim5 : ['D', 'F', 'A♭', 'C']
III : ['E♭', 'G', 'B♭']
IV : ['F', 'A♭', 'C']
IV+ : ['F', 'A', 'C']
V : ['G', 'B♭', 'D']
V+ : ['G', 'B', 'D']
V7 : ['G', 'B', 'D', 'F']
VI : ['A♭', 'C', 'E♭']
GerVI : ['A♭', 'C', 'E♭', 'F#']
FrVI : ['A♭', 'C', 'D', 'F#']
ItVI : ['A♭', 'C', 'F#']
VII : ['B♭', 'D', 'F']
VII dim : ['B', 'D', 'F']
VII dim7 : ['B', 'D', 'F', 'A♭']
```

Example 2: Print all chords in F# major and F# minor.

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py F+ -a
I : ['F#', 'A', 'C#']
bII : ['G', 'B', 'D']
II : ['G#', 'B', 'D#']
II7 : ['G#', 'B', 'D#', 'F#']
III : ['A#', 'C#', 'E#']
IV : ['B', 'D#', 'F#']
V : ['C#', 'E#', 'G#']
V7 : ['C#', 'E#', 'G#', 'B']
bVI : ['D', 'F#', 'A']
GerVI : ['D', 'F#', 'A', 'B#']
FrVI : ['D', 'F#', 'G#', 'B#']
ItVI : ['D', 'F#', 'B#']
VI : ['D#', 'F#', 'A#']
VI7 : ['D#', 'F#', 'A#', 'C#']
VII dim : ['E#', 'G#', 'B']
VII dim5 : ['E#', 'G#', 'B', 'D#']
VII dim7 : ['E#', 'G#', 'B', 'D']

C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py f+ -a
I : ['F#', 'A', 'C#']
I+ : ['F#', 'A#', 'C#']
bII : ['G', 'B', 'D']
II dim : ['G#', 'B', 'D']
II dim5 : ['G#', 'B', 'D', 'F#']
III : ['A', 'C#', 'E']
IV : ['B', 'D', 'F#']
IV+ : ['B', 'D#', 'F#']
V : ['C#', 'E', 'G#']
V+ : ['C#', 'E#', 'G#']
V7 : ['C#', 'E#', 'G#', 'B']
VI : ['D', 'F#', 'A']
GerVI : ['D', 'F#', 'A', 'B#']
FrVI : ['D', 'F#', 'G#', 'B#']
ItVI : ['D', 'F#', 'B#']
VII : ['E', 'G#', 'B']
VII dim : ['E#', 'G#', 'B']
VII dim7 : ['E#', 'G#', 'B', 'D']
```

Example 3: Print all chords in Db major and Db minor.

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py D- -a
I : ['D♭', 'F', 'A♭']
bII : ['E♭♭', 'G♭', 'B♭♭']
II : ['E♭', 'G♭', 'B♭']
II7 : ['E♭', 'G♭', 'B♭', 'D♭']
III : ['F', 'A♭', 'C']
IV : ['G♭', 'B♭', 'D♭']
V : ['A♭', 'C', 'E♭']
V7 : ['A♭', 'C', 'E♭', 'G♭']
bVI : ['B♭♭', 'D♭', 'F♭']
GerVI : ['B♭♭', 'D♭', 'F♭', 'G']
FrVI : ['B♭♭', 'D♭', 'E♭', 'G']
ItVI : ['B♭♭', 'D♭', 'G']
VI : ['B♭', 'D♭', 'F']
VI7 : ['B♭', 'D♭', 'F', 'A♭']
VII dim : ['C', 'E♭', 'G♭']
VII dim5 : ['C', 'E♭', 'G♭', 'B♭']
VII dim7 : ['C', 'E♭', 'G♭', 'B♭♭']

C:\Users\User\Documents\chord-identification\src\TickStart>python3 chord_to_note.py d- -a
I : ['D♭', 'F♭', 'A♭']
I+ : ['D♭', 'F', 'A♭']
bII : ['E♭♭', 'G♭', 'B♭♭']
II dim : ['E♭', 'G♭', 'B♭♭']
II dim5 : ['E♭', 'G♭', 'B♭♭', 'D♭']
III : ['F♭', 'A♭', 'C♭']
IV : ['G♭', 'B♭♭', 'D♭']
IV+ : ['G♭', 'B♭', 'D♭']
V : ['A♭', 'C♭', 'E♭']
V+ : ['A♭', 'C', 'E♭']
V7 : ['A♭', 'C', 'E♭', 'G♭']
VI : ['B♭♭', 'D♭', 'F♭']
GerVI : ['B♭♭', 'D♭', 'F♭', 'G']
FrVI : ['B♭♭', 'D♭', 'E♭', 'G']
ItVI : ['B♭♭', 'D♭', 'G']
VII : ['C♭', 'E♭', 'G♭']
VII dim : ['C', 'E♭', 'G♭']
VII dim7 : ['C', 'E♭', 'G♭', 'B♭♭']
```

Notes to Chord

Example 4: Print all possible chords for

- a) C, E, G
- b) C, Eb, G
- c) C, Eb, G[#]

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C E G
I chord in C major; Chord notes : ['C', 'E', 'G']
bII chord in B major; Chord notes : ['C', 'E', 'G']
IV chord in G major; Chord notes : ['C', 'E', 'G']
V chord in F major; Chord notes : ['C', 'E', 'G']
bVI chord in E major; Chord notes : ['C', 'E', 'G']
V7 chord in F major; Chord notes : ['C', 'E', 'G', 'Bb']; Missing notes : ['Bb']
GerVI chord in E major; Chord notes : ['C', 'E', 'G', 'A#']; Missing notes : ['A#']
I+ chord in c minor; Chord notes : ['C', 'E', 'G']
bII chord in b minor; Chord notes : ['C', 'E', 'G']
III chord in a minor; Chord notes : ['C', 'E', 'G']
IV+ chord in g minor; Chord notes : ['C', 'E', 'G']
V+ chord in f minor; Chord notes : ['C', 'E', 'G']
VI chord in e minor; Chord notes : ['C', 'E', 'G']
VII chord in d minor; Chord notes : ['C', 'E', 'G']
V7 chord in f minor; Chord notes : ['C', 'E', 'G', 'Bb']; Missing notes : ['Bb']
GerVI chord in e minor; Chord notes : ['C', 'E', 'G', 'A#']; Missing notes : ['A#']
--- Used 0.015518903732299805 seconds ---

C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C E- G
II chord in Bb major; Chord notes : ['C', 'Eb', 'G']
III chord in Ab major; Chord notes : ['C', 'Eb', 'G']
VI chord in Eb major; Chord notes : ['C', 'Eb', 'G']
II7 chord in Bb major; Chord notes : ['C', 'Eb', 'G', 'Bb']; Missing notes : ['Bb']
VI7 chord in Eb major; Chord notes : ['C', 'Eb', 'G', 'Bb']; Missing notes : ['Bb']
I chord in c minor; Chord notes : ['C', 'Eb', 'G']
IV chord in g minor; Chord notes : ['C', 'Eb', 'G']
V chord in f minor; Chord notes : ['C', 'Eb', 'G']
--- Used 0.013342857360839844 seconds ---

C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C E- G+
II chord in Bb major; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
III chord in Ab major; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
VI chord in Eb major; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
II7 chord in Bb major; Chord notes : ['C', 'Eb', 'G', 'Bb']; Missing notes : ['Bb', 'G']
VI7 chord in Eb major; Chord notes : ['C', 'Eb', 'G', 'Bb']; Missing notes : ['Bb', 'G']
VIIIdim chord in Db major; Chord notes : ['C', 'Eb', 'Gb']; Missing notes : ['Gb']
VIIIdim5 chord in Db major; Chord notes : ['C', 'Eb', 'Gb', 'Bb']; Missing notes : ['Gb', 'Bb']
VIIIdim7 chord in Db major; Chord notes : ['C', 'Eb', 'Gb', 'Bbb']; Missing notes : ['Gb', 'Bbb']
I chord in c minor; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
IV chord in g minor; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
V chord in f minor; Chord notes : ['C', 'Eb', 'G']; Missing notes : ['G']
IIIdim chord in bb minor; Chord notes : ['C', 'Eb', 'Gb']; Missing notes : ['Gb']
VIIIdim chord in db minor; Chord notes : ['C', 'Eb', 'Gb']; Missing notes : ['Gb']
IIIdim5 chord in bb minor; Chord notes : ['C', 'Eb', 'Gb', 'Bb']; Missing notes : ['Gb', 'Bb']
VIIIdim7 chord in db minor; Chord notes : ['C', 'Eb', 'Gb', 'Bbb']; Missing notes : ['Gb', 'Bbb']
--- Used 0.11101150512695312 seconds ---
```

Example 5: Print all possible chords for

a) C, Ab

b) C, A#

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C A-
I chord in A b major; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
bII chord in G major; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
IV chord in E b major; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
V chord in D b major; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
bVI chord in C major; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
V7 chord in D b major; Chord notes : ['A b', 'C', 'E b', 'G b']; Missing notes : ['E b', 'G b']
GerVI chord in C major; Chord notes : ['A b', 'C', 'E b', 'F#']; Missing notes : ['E b', 'F#']
FrVI chord in C major; Chord notes : ['A b', 'C', 'D', 'F#']; Missing notes : ['D', 'F#']
ItVI chord in C major; Chord notes : ['A b', 'C', 'F#']; Missing notes : ['F#']
I+ chord in a b minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
bII chord in g minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
III chord in f minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
IV+ chord in e b minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
V+ chord in d b minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
VI chord in c minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
VII chord in b b minor; Chord notes : ['A b', 'C', 'E b']; Missing notes : ['E b']
V7 chord in d b minor; Chord notes : ['A b', 'C', 'E b', 'G b']; Missing notes : ['E b', 'G b']
GerVI chord in c minor; Chord notes : ['A b', 'C', 'E b', 'F#']; Missing notes : ['E b', 'F#']
FrVI chord in c minor; Chord notes : ['A b', 'C', 'D', 'F#']; Missing notes : ['D', 'F#']
ItVI chord in c minor; Chord notes : ['A b', 'C', 'F#']; Missing notes : ['F#']
--- Used 0.0572922297668457 seconds ---

C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C A+
GerVI chord in E major; Chord notes : ['C', 'E', 'G', 'A#']; Missing notes : ['E', 'G']
GerVI chord in e minor; Chord notes : ['C', 'E', 'G', 'A#']; Missing notes : ['E', 'G']
FrVI chord in E major; Chord notes : ['C', 'E', 'F#', 'A#']; Missing notes : ['E', 'F#']
FrVI chord in e minor; Chord notes : ['C', 'E', 'F#', 'A#']; Missing notes : ['E', 'F#']
ItVI chord in E major; Chord notes : ['C', 'E', 'A#']; Missing notes : ['E']
ItVI chord in e minor; Chord notes : ['C', 'E', 'A#']; Missing notes : ['E']
--- Used 0.021984577178955078 seconds ---
```

Example 6: Print all possible chords for C \sharp , D, E and F \sharp .

[illegible]

Example 7: Print all possible chords for D, D# and D##.

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py D++ D+ D
--- Used 0.00024175643920898438 seconds ---
```

Example 8: Print all possible chords for Cb and Abb, with the specification of Cb major.

```
C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C- A--
I chord in A b b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
bII chord in G b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
IV chord in E b b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
V chord in D b b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
bVI chord in C b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
V7 chord in D b b major; Chord notes : ['A b b', 'C b', 'E b b', 'G b b']; Missing notes : ['G b b', 'E b b']
GerVI chord in C b major; Chord notes : ['A b b', 'C b', 'E b b', 'F']; Missing notes : ['F', 'E b b']
FrVI chord in C b major; Chord notes : ['A b b', 'C b', 'D b', 'F']; Missing notes : ['F', 'D b']
ItVI chord in C b major; Chord notes : ['A b b', 'C b', 'F']; Missing notes : ['F']
I+ chord in a b b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
bII chord in g b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
III chord in f b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
IV+ chord in e b b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
V+ chord in d b b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
VI chord in c b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
VII chord in b b b minor; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
V7 chord in d b b minor; Chord notes : ['A b b', 'C b', 'E b b', 'G b b']; Missing notes : ['G b b', 'E b b']
GerVI chord in c b minor; Chord notes : ['A b b', 'C b', 'E b b', 'F']; Missing notes : ['F', 'E b b']
FrVI chord in c b minor; Chord notes : ['A b b', 'C b', 'D b', 'F']; Missing notes : ['F', 'D b']
ItVI chord in c b minor; Chord notes : ['A b b', 'C b', 'F']; Missing notes : ['F']
--- Used 0.16257548332214355 seconds ---

C:\Users\User\Documents\chord-identification\src\TickStart>python3 note_to_chord.py C- A-- -C-
bVI chord in C b major; Chord notes : ['A b b', 'C b', 'E b b']; Missing notes : ['E b b']
GerVI chord in C b major; Chord notes : ['A b b', 'C b', 'E b b', 'F']; Missing notes : ['E b b', 'F']
FrVI chord in C b major; Chord notes : ['A b b', 'C b', 'D b', 'F']; Missing notes : ['F', 'D b']
ItVI chord in C b major; Chord notes : ['A b b', 'C b', 'F']; Missing notes : ['F']
--- Used 0.01773524234362793 seconds ---
```