
pychord Documentation

Release

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Subpackages

pychord.constants package

Submodules

pychord.constants.qualities module

pychord.constants.scales module

Module contents

Submodules

pychord.analyzer module

pychord.analyzer.**find_quality** (*positions*)

Find a quality consists of positions

Parameters *positions* (*list[int]*) – note positions

Return type str|None

pychord.analyzer.**get_all_rotated_notes** (*notes*)

Get all rotated notes

get_all_rotated_notes([1,3,5]) -> [[1,3,5],[3,5,1],[5,1,3]]

Return type list[list[str]]

pychord.analyzer.**note_to_chord** (*notes*)

Convert note list to chord list

Parameters `notes` (*list[str]*) – list of note arranged from lower note. ex) ["C", "Eb", "G"]

Return type `list[pychord.Chord]`

Returns list of chord

`pychord.analyzer.notes_to_positions` (*notes, root*)

Get notes positions.

ex) `notes_to_positions(["C", "E", "G"], "C")` -> [0, 4, 7]

Parameters

- **notes** (*list[str]*) – list of notes
- **root** (*str*) – the root note

Return `list[int]` list of note positions

pychord.chord module

`class` `pychord.chord.Chord` (*chord*)

Bases: `object`

Class to handle a chord.

Parameters

- **`_chord`** (*str*) – Name of the chord. (e.g. C, Am7, F#m7-5/A)
- **`_root`** (*str*) – The root note of chord.
- **`_quality`** (*pychord.Quality*) – The quality of chord. (e.g. m7, 6, M9, ...)
- **`_appended`** (*list[str]*) – The appended notes on chord.
- **`_on`** (*str*) – The base note of slash chord.

appended

The appended notes on chord

chord

The name of chord

components (*visible=True*)

Return the component notes of chord

Parameters **visible** (*bool*) – returns the name of notes if True else list of int

Return type `list[(str or int)]`

:return component notes of chord

info ()

Return information of chord to display

on

The base note of slash chord

quality

The quality of chord

root

The root note of chord

transpose (*trans*, *scale*='C')

Transpose the chord

Parameters

- **trans** (*int*) – Transpose key
- **scale** (*str*) – key scale

Returns

`pychord.chord.as_chord(chord)`

convert from str to Chord instance if input is str

Parameters **chord** (*str*/*pychord.Chord*) – Chord name or Chord instance

Return type `pychord.Chord`

Returns Chord instance

pychord.parser module

`pychord.parser.check_note(note, chord)`

Return True if the note is valid.

Parameters

- **note** (*str*) – note to check its validity
- **chord** (*str*) – the chord which includes the note

Return bool

`pychord.parser.parse(chord)`

Parse a string to get chord component

Parameters **chord** (*str*) – str expression of a chord

Return type (*str*, `pychord.Quality`, *str*, *str*)

Return (**root**, **quality**, **appended**, **on**)

pychord.progression module

class `pychord.progression.ChordProgression` (*initial_chords*=None)

Bases: `object`

Class to handle chord progressions.

Parameters **_chords** (*list* [*pychord.Chord*]) – component chords of chord progression.

append (*chord*)

Append a chord to chord progressions

Parameters **chord** (*str*/*pychord.Chord*) – A chord to append

Returns

chords

Get component chords of chord progression

Return type `list`[`pychord.Chord`]

insert (*index*, *chord*)

Insert a chord to chord progressions

Parameters

- **index** (*int*) – Index to insert a chord
- **chord** (*str*|*pychord.Chord*) – A chord to insert

Returns

pop (*index=-1*)

Pop a chord from chord progressions

Parameters **index** (*int*) – Index of the chord to pop (default: -1)

Return *pychord.Chord*

transpose (*trans*)

Transpose whole chord progressions

Parameters **trans** (*int*) – Transpose key

Returns

pychord.quality module

class *pychord.quality*.**Quality** (*quality*)

Bases: *object*

Chord quality

Parameters **_quality** (*str*) – str expression of chord quality

append_note (*note*, *root*, *scale=0*)

Append a note to quality

Parameters

- **note** (*str*) – note to append on quality
- **root** (*str*) – root note of chord
- **scale** (*int*) – key scale

append_notes (*notes*, *root*, *scale=0*)

Append notes to quality

Parameters

- **notes** (*list*[*str*]) – notes to append on quality
- **root** (*str*) – root note of chord
- **scale** (*int*) – key scale

append_on_chord (*on_chord*, *root*)

Append on chord

To create Am7/G q = *Quality*('m7') q.append_on_chord('G', root='A')

Parameters

- **on_chord** (*str*) – bass note of the chord
- **root** (*str*) – root note of the chord

get_components (*root='C', visible=False*)
Get components of chord quality

Parameters

- **root** (*str*) – the root note of the chord
- **visible** (*bool*) – returns the name of notes if True

Return type list[(str or int)]

:return components of chord quality

quality

Get name of quality

pychord.utils module

`pychord.utils.display_appended` (*appended*)

`pychord.utils.display_on` (*on_note*)

`pychord.utils.note_to_val` (*note*)

Convert note to int

```
>>> note_to_val("C")
0
>>> note_to_val("B")
11
```

Return type int

`pychord.utils.transpose_note` (*note, transpose, scale='C'*)

Transpose a note

Parameters

- **note** (*str*) – note to transpose
- **scale** (*str*) – key scale

Return type str

Returns transposed note

`pychord.utils.val_to_note` (*val, scale='C'*)

Convert int to note

```
>>> val_to_note(0)
"C"
>>> val_to_note(11, "D")
"D#"
```

Parameters **scale** (*str*) – key scale

Return type str

Module contents

CHAPTER 2

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