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# **python-colourlovers Documentation**

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<b>1</b>	<b>ColourLovers</b>	<b>3</b>
<b>2</b>	<b>Colour</b>	<b>5</b>
<b>3</b>	<b>Palette</b>	<b>7</b>
<b>4</b>	<b>Pattern</b>	<b>9</b>
<b>5</b>	<b>Lover</b>	<b>11</b>
<b>6</b>	<b>Stat</b>	<b>13</b>
<b>7</b>	<b>The RGB and HSV colour classes</b>	<b>15</b>
<b>8</b>	<b>Indices and tables</b>	<b>17</b>
	<b>Python Module Index</b>	<b>19</b>



This module provides access to the ColourLovers API, a web service that allows users to publish colour themes and rate them. The API of this webservice allows to search for users (Lovers) and their posted contents (Colours, Patterns, Palettes).

Accessing the API requires an instance of *ColourLovers* which provides the methods to access the different content types: *Colour*, *Palette*, *Pattern*, *Lover*. Sending a request to ColourLovers is as easy as calling the corresponding method such as *ColourLovers.palettes()* to search for palettes. Additionally, the following arguments can be specified *new*, *top*, *random* with additional parameters. Please refer to the ColourLovers API documentation to find out more about the specific parameters and their restrictions at <http://www.colourlovers.com/api>.

You find the ColourLovers website at: <http://www.colourlovers.com>

Usage example:

```
>>> from colourlovers import ColourLovers
>>> cl = ColourLovers()
>>> cl.color('#37cbff')
[<Colour id='4767129' title='i feel pretty' rgb=(55, 203, 255)>]
>>> cl.palettes('new', keywords='funky', numResults=3)
[<Palette id='1940972' title='"Funky President"'>,
 <Palette id='1936394' title='Barbie Doll Blonde'>,
 <Palette id='1936247' title='Lily's Rainbow'>]
```

Another example:

```
>>> cl.patterns('random')
[<Pattern id='391644' title='acanalado'>]
>>> cl.colors('top', numResults=3)
[<Colour id='14' title='Black' rgb=(0, 0, 0)>,
 <Colour id='16' title='white' rgb=(255, 255, 255)>,
 <Colour id='1086335' title='dutch teal' rgb=(22, 147, 165)>]
```



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## ColourLovers

---

**class** colourlovers.ColourLovers

**color** (*argument*, **\*\*kwargs**)

**colors** (*argument=**None*, **\*\*kwargs**)

lover	Restrict results to specific COLOURlover by providing their user name.
hue_range	Hue range of the colour: 12, 68. Values must be in range [0,359] and the left value must be less than the right value.
bri_range	Brightness range of the colours: 2, 88. Values must be in range [0, 99] and the left value must be less than the right value.
keywords	String of keywords to search for in patterns.
keyword_exact	Perform an exact search for the keywords passed if set to 1. Default: 0.
order_col	dateCreated, score, name, ` `numVotes or numViews
sort_by	Sorting in ascending (ASC) or descending (DESC) order. Defaults to (ASC)
num_results	Number of results to be returned. Maximum: 100. Default: 20.
result_offset	Result offset, for paging. Default: 0.

**palette** (*argument*, **\*\*kwargs**)

**palettes** (*argument=**None*, **\*\*kwargs**)

lover	Restrict results to specific COLOURlover by providing their user name.
hue_option	yellow, orange, red or green, violet or blue
hex	Restrict results to patterns with a specific colour given as any valid 6-char hex value without preceding #.
keywords	String of keywords to search for in patterns.
keyword_exact	Perform an exact search for the keywords passed if set to 1. Default: 0.
order_col	dateCreated, score, name, ` `numVotes or numViews
sort_by	Sorting in ascending (ASC) or descending (DESC) order. Defaults to (ASC)
num_results	Number of results to be returned. Maximum: 100. Default: 20.
result_offset	Result offset, for paging. Default: 0.
show_palette_width	Shows palette's colour's widths if set to 1. Default: 0

**pattern** (*argument*, **\*\*kwargs**)

**patterns** (*argument=**None*, **\*\*kwargs**)

lover	Restrict results to specific COLOURlover by providing their user name.
hue_option	yellow, orange, red or green, violet or blue
hex	Restrict results to patterns with a specific colour given as any valid 6-char hex value without preceding #.
keywords	String of keywords to search for in patterns.
keyword_exact	Perform an exact search for the keywords passed if set to 1. Default: 0.
order_col	dateCreated, score, name ` , ``numVotes or numViews
sort_by	Sorting in ascending (ASC) or descending (DESC) order. Defaults to (ASC)
num_results	Number of results to be returned. Maximum: 100. Default: 20.
result_offset	Result offset, for paging. Default: 0.

**lover** (*argument*, *\*\*kwargs*)

comments	0 or 1: if 1, will show last 10 comments for given Lover
----------	--

**lovers** (*argument=None*, *\*\*kwargs*)

order_col	Order in which the colours will be shown. Possible values are: dateCreated, score, name ` , ``numVotes or numViews.
sort_by	Sorting in ascending (ASC) or descending (DESC) order. Defaults to (ASC)
num_results	Number of results to be returned. Maximum: 100. Default: 20.
result_offset	Result offset, for paging. Default: 0.

**stats** (*stats\_type*)

Return the stats for *stat\_type*. *stat\_type* refers to one of the content types on ColourLovers and can be colors, lovers, patterns, palettes. A ColourLoversError is raised when an invalid type is requested.

**Args:** *stat\_type* (*str*): content type to request stats for.

**Returns:** The requested stats as *Stat* object.

Request the statistical value (total number) for *stats\_type*. *stats\_type* is a string that can be either of the following: colors, patterns, palettes, lovers.

**Args:** *stats\_type* (*str*): Content type to retrieve statistics for.

**Returns:** Total number of the requested content type on ColourLovers.com.



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## Colour

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**class** colourlovers.**Colour** (\*\*kwargs)

This class defines a ColourLovers colour in the RGB and HSV colour spaces. The colour values can be accessed through the `rgb` and `hsv` respectively and are of type *RGB* and *HSV*.

**id**

Unique id for this Color as `int`.

**title**

Title / Name of the Color.

**user\_name**

Username of the Color's creator.

**num\_views**

Number of views this Color has received as `int`.

**num\_votes**

Number of votes this Color has received as `int`.

**num\_comments**

Number of comments this Color has received as `int`.

**num\_hearts**

Number of hearts this Color has in the range of [0,5] as `float`.

**rank**

This Color's rank on COLOURlovers.com as `int`.

**date\_created**

Date this Color was created as a `datetime` object.

**description**

This Color's description.

**url**

This Color's COLOURlovers.com URL.

**image\_url**

Link to a PNG version of this Color.

**badge\_url**

Link to a COLOURlovers.com badge for this Color.

**api\_url**

This Color's COLOURlovers.com API URL.

**classmethod** `from_xml` (*xml*)

Create a new colour instance from *xml*. *xml* is a DOM element with the root element name `color`.

**Args:** `xml` (Element): `color` DOM element.

**Returns:** New instance of `Colour`.

**classmethod** `tag` ()

Returns the name of the XML tag for a colour object.

---

## Palette

---

```
class colourlovers.Palette(**kwargs)
```

**id**

Unique id for this Palette as *int*.

**title**

Title / Name of the Palette.

**user\_name**

Username of the Palette's creator.

**num\_views**

Number of views this Palette has received as *int*.

**num\_votes**

Number of votes this Palette has received as *int*.

**num\_comments**

Number of comments this Palette has received as *int*.

**num\_hearts**

Number of hearts this Palette has in the range [0,5] as *float*.

**rank**

This Palette's rank on COLOURlovers.com as *int*.

**date\_created**

Date this Palette was created as *datetime* object.

**colors**

List of Colors within this Palette as hex values

**color\_widths**

This Palette's Color's widths in the range [0.0, 1.0] as *float*.

**Note:** this attribute is optional and might not be present if not returned by the API response.

**description**

This Palette's description

**url**

This Palette's COLOURlovers.com URL.

**image\_url**

Link to a png version of this Palette.

**badge\_url**

Link to a COLOURlovers.com badge for this Palette.

**api\_url**

This Palette's COLOURlovers.com API URL.

---

## Pattern

---

```
class colourlovers.Pattern (**kwargs)

    id
        Unique id for this Pattern as int.

    title
        Title / Name of the Pattern.

    user_name
        Username of the Pattern's creator.

    num_views
        Number of views this Pattern has received as int.

    num_votes
        Number of votes this Pattern has received as int.

    num_comments
        Number of comments this Pattern has received as int.

    num_hearts
        Number of Hearts this Pattern has in the range [0,5] as float.

    rank
        This Pattern's rank on COLOURlovers.com as int.

    date_created
        Date this Pattern was created as datetime object.

    colors
        List of colors within this Pattern as hex code.

    description
        This Pattern's description.

    url
        This Pattern's COLOURlovers.com URL

    image_url
        Link to a PNG version of this Pattern.

    badge_url
        Link to a COLOURlovers.com badge for this Pattern.

    api_url
        This Pattern's COLOURlovers.com API URL.
```



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## Lover

---

```
class colourlovers.Lover(**kwargs)
```

```
    id
```

```
        Unique id for this Lover as int.
```

```
    user_name
```

```
        This Lover's Username.
```

```
    date_registered
```

```
        Date this Lover registered with COLOURlovers.com as datetime object.
```

```
    date_last_active
```

```
        Date this Lover was last active on COLOURlovers.com as datetime object.
```

```
    rating
```

```
        This Lover's rating
```

```
    location
```

```
        This Lover's location.
```

```
    num_colors
```

```
        Number of Colors this Lover has made as int.
```

```
    num_palettes
```

```
        Number of Palettes this Lover has made as int.
```

```
    num_patterns
```

```
        Number of Patterns this Lover has made as int.
```

```
    num_comments_made
```

```
        Number of comments this Lover has made as int.
```

```
    num_lovers
```

```
        Number of Lovers [friends] this Lover has as int.
```

```
    num_comments_on_profile
```

```
        Number of comments this Lover has on their profile as int.
```

```
    comments
```

```
        Last 10 comments made on this Lover's profile as list of Comment instances.
```

```
    Note: this attribute is optional. It is only returned when sending the parameter comments=1 in the request.
```

```
    url
```

```
        This Lover's COLOURlovers.com URL.
```

**api\_url**

This Lover's COLOURlovers.com API URL.



---

**Stat**

---

```
class colourlovers.Stat (total, **kwargs)
```

```
    total
```

```
        Total number of colors, palettes, patterns or lovers in the COLOURlovers system.
```



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## The RGB and HSV colour classes

---

**class** colourlovers.**RGB** (*red, green, blue*)

Define a RGB colour as a triple of integers in the range from 0 to 255. The colour channels are stored in attributes *red, green, blue*.

**classmethod** **from\_xml** (*xml*)

Create an instance of *RGB* from *xml*.

**Args:** *xml (Element)*: rgb element from API response.

**Returns:** Instance of *RGB*.

**red**

Red colour channel in range [0, 255]

**green**

Green colour channel in range [0, 255]

**blue**

Blue colour channel in range [0, 255]

**hex**

Return hex colour code corresponding to the RGB value.

**class** colourlovers.**HSV** (*hue, saturation, value*)

Define a HSV colour instance from *hue, saturation* and *value*. The three values have to be integer values with *hue* in range [0, 360] and *saturation, value* in range [0, 255].

**classmethod** **from\_xml** (*xml*)

Create an instance of *HSV* from *xml*.

**Args:** *xml (Element)*: hsv element from API response.

**Returns:** Instance of *HSV*.

**hue**

HSV hue channel in range [0, 360]

**saturation**

HSV saturation channel in range [0, 255]

**value**

HSV value channel in range [0, 255]



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## Indices and tables

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- `genindex`
- `modindex`
- `search`



**C**

colourlovers, 3





**A**

api\_url (colourlovers.Colour attribute), 5  
api\_url (colourlovers.Lover attribute), 11  
api\_url (colourlovers.Palette attribute), 8  
api\_url (colourlovers.Pattern attribute), 9

**B**

badge\_url (colourlovers.Colour attribute), 5  
badge\_url (colourlovers.Palette attribute), 7  
badge\_url (colourlovers.Pattern attribute), 9  
blue (colourlovers.RGB attribute), 15

**C**

color() (colourlovers.ColourLovers method), 3  
color\_widths (colourlovers.Palette attribute), 7  
colors (colourlovers.Palette attribute), 7  
colors (colourlovers.Pattern attribute), 9  
colors() (colourlovers.ColourLovers method), 3  
Colour (class in colourlovers), 5  
ColourLovers (class in colourlovers), 3  
colourlovers (module), 1  
comments (colourlovers.Lover attribute), 11

**D**

date\_created (colourlovers.Colour attribute), 5  
date\_created (colourlovers.Palette attribute), 7  
date\_created (colourlovers.Pattern attribute), 9  
date\_last\_active (colourlovers.Lover attribute), 11  
date\_registered (colourlovers.Lover attribute), 11  
description (colourlovers.Colour attribute), 5  
description (colourlovers.Palette attribute), 7  
description (colourlovers.Pattern attribute), 9

**F**

from\_xml() (colourlovers.Colour class method), 5  
from\_xml() (colourlovers.HSV class method), 15  
from\_xml() (colourlovers.RGB class method), 15

**G**

green (colourlovers.RGB attribute), 15

**H**

hex (colourlovers.RGB attribute), 15  
HSV (class in colourlovers), 15  
hue (colourlovers.HSV attribute), 15

**I**

id (colourlovers.Colour attribute), 5  
id (colourlovers.Lover attribute), 11  
id (colourlovers.Palette attribute), 7  
id (colourlovers.Pattern attribute), 9  
image\_url (colourlovers.Colour attribute), 5  
image\_url (colourlovers.Palette attribute), 7  
image\_url (colourlovers.Pattern attribute), 9

**L**

location (colourlovers.Lover attribute), 11  
Lover (class in colourlovers), 11  
lover() (colourlovers.ColourLovers method), 4  
lovers() (colourlovers.ColourLovers method), 4

**N**

num\_colors (colourlovers.Lover attribute), 11  
num\_comments (colourlovers.Colour attribute), 5  
num\_comments (colourlovers.Palette attribute), 7  
num\_comments (colourlovers.Pattern attribute), 9  
num\_comments\_made (colourlovers.Lover attribute), 11  
num\_comments\_on\_profile (colourlovers.Lover attribute), 11  
num\_hearts (colourlovers.Colour attribute), 5  
num\_hearts (colourlovers.Palette attribute), 7  
num\_hearts (colourlovers.Pattern attribute), 9  
num\_lovers (colourlovers.Lover attribute), 11  
num\_palettes (colourlovers.Lover attribute), 11  
num\_patterns (colourlovers.Lover attribute), 11  
num\_views (colourlovers.Colour attribute), 5  
num\_views (colourlovers.Palette attribute), 7  
num\_views (colourlovers.Pattern attribute), 9  
num\_votes (colourlovers.Colour attribute), 5  
num\_votes (colourlovers.Palette attribute), 7  
num\_votes (colourlovers.Pattern attribute), 9

## P

Palette (class in colourlovers), 7  
palette() (colourlovers.ColourLovers method), 3  
palettes() (colourlovers.ColourLovers method), 3  
Pattern (class in colourlovers), 9  
pattern() (colourlovers.ColourLovers method), 3  
patterns() (colourlovers.ColourLovers method), 3

## R

rank (colourlovers.Colour attribute), 5  
rank (colourlovers.Palette attribute), 7  
rank (colourlovers.Pattern attribute), 9  
rating (colourlovers.Lover attribute), 11  
red (colourlovers.RGB attribute), 15  
RGB (class in colourlovers), 15

## S

saturation (colourlovers.HSV attribute), 15  
Stat (class in colourlovers), 13  
stats() (colourlovers.ColourLovers method), 4

## T

tag() (colourlovers.Colour class method), 6  
title (colourlovers.Colour attribute), 5  
title (colourlovers.Palette attribute), 7  
title (colourlovers.Pattern attribute), 9  
total (colourlovers.Stat attribute), 13

## U

url (colourlovers.Colour attribute), 5  
url (colourlovers.Lover attribute), 11  
url (colourlovers.Palette attribute), 7  
url (colourlovers.Pattern attribute), 9  
user\_name (colourlovers.Colour attribute), 5  
user\_name (colourlovers.Lover attribute), 11  
user\_name (colourlovers.Palette attribute), 7  
user\_name (colourlovers.Pattern attribute), 9

## V

value (colourlovers.HSV attribute), 15