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# **ansicolor Documentation**

*Release 0.2.4*

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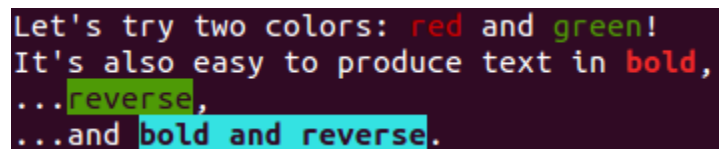


## Getting started with colors

To highlight using colors:

```
from ansicolor import cyan
from ansicolor import green
from ansicolor import red
from ansicolor import white

print("Let's try two colors: %s and %s!" % (red("red"), green("green")))
print("It's also easy to produce text in %s," % (red("bold", bold=True)))
print("...%s," % (green("reverse", reverse=True)))
print("...and %s." % (cyan("bold and reverse", bold=True, reverse=True)))
```



```
Let's try two colors: red and green!
It's also easy to produce text in bold,
...reverse,
...and bold and reverse.
```

This will emit ansi escapes into the string: one when starting a color, another to reset the color back to the default:

```
>>> from ansicolor import green

>>> green("green")
'\x1b[0;0;32mgreen\x1b[0;0m'
```

If I want to be able to pass a color as an argument I can also use the `colorize` function:

```
from ansicolor import Colors
from ansicolor import colorize

print(colorize("I'm blue", Colors.Blue))
```

```
I'm blue
```

I can also apply color on a portion of a string:

```
from ansicolor import Colors
from ansicolor import colorize

print(colorize('"'I'm blue", said the smurf.'"', Colors.Blue, start=1, end=9))
```

```
"I'm blue", said the smurf.
```

## Using highlights

Quite often colors are used not to format all of the text in color, but to highlight certain parts of it. The function `ansicolor.highlight_string` takes this a bit further by allowing you to pass in a list of pairs that represent the start and end offsets in the string that you want highlighted.

```
import re

from ansicolor import highlight_string

text = """
What giants?" asked Sancho Panza.
The ones you can see over there," answered his master, "with the huge arms, some of
↳which are very nearly two leagues long."
Now look, your grace," said Sancho, "what you see over there aren't giants, but
↳windmills, and what seems to be arms are just their sails, that go around in the
↳wind and turn the millstone."
Obviously," replied Don Quijote, "you don't know much about adventures."
""".strip()

def get_line_indices(text):
    odds, evens = [], []
    for i, match in enumerate(re.finditer('(m)^\.*$', text)):
        start = match.start()
        end = match.end()
        if (i + 1) % 2 == 1:
            odds.append((start, end))
        else:
            evens.append((start, end))
    return odds, evens

def get_word_indices(regex, text):
    pairs = []
    for i, match in enumerate(re.finditer(regex, text)):
        start = match.start()
        end = match.end()
        pairs.append((start, end))
    return pairs

odds, evens = get_line_indices(text)
characters = get_word_indices('(i)(don quijote|master|sancho panza|sancho)', text)

print(">> highlight only odds:")
```

```
print(highlight_string(text, odds))

print("\n>> highlight both:")
print(highlight_string(text, odds, evens))

print("\n>> highlight both + characters:")
print(highlight_string(text, odds, evens, characters))
```

```
>> highlight only odds:
"What giants?" asked Sancho Panza.
"The ones you can see over there," answered his master, "with the huge arms, some of which are very nearly two leagues long."
"Now look, your grace," said Sancho, "what you see over there aren't giants, but windmills, and what seems to be arms are just their sails, that go around in the wind and turn the millstone."
"Obviously," replied Don Quijote, "you don't know much about adventures."

>> highlight both:
"What giants?" asked Sancho Panza.
"The ones you can see over there," answered his master, "with the huge arms, some of which are very nearly two leagues long."
"Now look, your grace," said Sancho, "what you see over there aren't giants, but windmills, and what seems to be arms are just their sails, that go around in the wind and turn the millstone."
"Obviously," replied Don Quijote, "you don't know much about adventures."

>> highlight both + characters:
"What giants?" asked Sancho Panza.
"The ones you can see over there," answered his master, "with the huge arms, some of which are very nearly two leagues long."
"Now look, your grace," said Sancho, "what you see over there aren't giants, but windmills, and what seems to be arms are just their sails, that go around in the wind and turn the millstone."
"Obviously," replied Don Quijote, "you don't know much about adventures."
```

Every list of pairs that is passed in is considered a highlighting layer and gets a new color. Where layers overlap this is indicated by applying:

- bold (two layers overlap),
- reverse (three layers overlap),
- bold and reverse (four layers overlap).

Four layers is the maximum, because after that there is no further distinction possible. See *ansicolor.demos.demo\_highlight* for an exhaustive example.

## Colored diffs

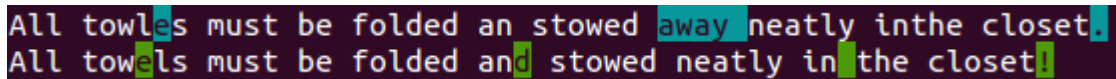
One practical use of colors is to make differences in text more visible. *ansicolor.colordiff* computes a diff of two strings and returns a marked-up version of them that highlights the characters that differ between the two.

```
from ansicolor import Colors
from ansicolor import colordiff
```

```
statement = "All towles must be folded an stowed away neatly inthe closet."
reviewed = "All towels must be folded and stowed neatly in the closet!"

first, second = colordiff(statement, reviewed,
                          color_x=Colors.Cyan, color_y=Colors.Green)

print(first)
print(second)
```



## Working with marked-up strings

### Stripping markup

Sometimes I may have a string that contains markup and I'll want to do something with it that concerns only the text, so I can strip the markup:

```
>>> from ansicolor import red
>>> from ansicolor import strip_escapes
>>> from ansicolor import yellow

>>> message = "My favorite colors are %s and %s" % (yellow("yellow"), red("red"))
>>> print("The length of this text is not: %d" % len(message))
The length of this text is not: 67
>>> print("The length of this text is: %d" % len(strip_escapes(message)))
The length of this text is: 37
```

### Producing output

Printing marked-up strings directly is not appropriate for all use cases. When writing to a file it's generally not desirable to print ansi escapes meant for a terminal. The two functions `ansicolor.write_out` and `ansicolor.write_err` omit ansi escapes if the file being written to is not a tty.

```
from ansicolor import red
from ansicolor import write_out

write_out(red("This looks red in a terminal.\n"))
```



### ansicolor package

#### Submodules

##### ansicolor.ansicolor module

`ansicolor.ansicolor.black` (*s*, *bold=False*, *reverse=False*)  
Colorize string in black

##### Parameters

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.blue` (*s*, *bold=False*, *reverse=False*)  
Colorize string in blue

##### Parameters

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.cyan` (*s*, *bold=False*, *reverse=False*)  
Colorize string in cyan

##### Parameters

- **s** (*string*) – The string to colorize.

- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.green` (*s*, *bold=False*, *reverse=False*)  
Colorize string in green

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.magenta` (*s*, *bold=False*, *reverse=False*)  
Colorize string in magenta

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.red` (*s*, *bold=False*, *reverse=False*)  
Colorize string in red

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.white` (*s*, *bold=False*, *reverse=False*)  
Colorize string in white

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.yellow` (*s*, *bold=False*, *reverse=False*)  
Colorize string in yellow

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.colorize(s, color, bold=False, reverse=False, start=None, end=None)`  
 Colorize a string with the color given.

#### Parameters

- **s** (*string*) – The string to colorize.
- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.
- **start** (*int*) – Index at which to start coloring.
- **end** (*int*) – Index at which to end coloring.

**Return type** string

`ansicolor.ansicolor.wrap_string(s, pos, color, bold=False, reverse=False)`  
 Colorize the string up to a position.

#### Parameters

- **s** (*string*) – The string to colorize.
- **pos** (*int*) – The position at which to stop.
- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

Deprecated since version 0.2.2: This function has been deprecated in favor of `colorize()`.

`ansicolor.ansicolor.get_code(color, bold=False, reverse=False)`  
 Returns the escape code for styling with the given color, in bold and/or reverse.

#### Parameters

- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.ansicolor.highlight_string(s, *spanlists, **kw)`  
 Highlight spans in a string using a list of (begin, end) pairs. Each list is treated as a layer of highlighting. Up to four layers of highlighting are supported.

#### Parameters

- **s** (*string*) – The string to highlight
- **spanlists** (*list*) – A list of tuples on the form [(begin, end) \*] \*
- **kw** – May include: *bold*, *reverse*, *color*, *colors* and *nocolor*

**Return type** string

Deprecated since version 0.2.3: The `color` parameter has been deprecated in favor of `colors`.

`ansicolor.ansicolor.get_highlighter(colorid)`  
 Map a color index to a highlighting color.

**Parameters** `colorid` (*int*) – The index.

**Return type** `Colors`

`ansicolor.ansicolor.strip_escapes` (*s*)

Strips escapes from the string.

**Parameters** `s` (*string*) – The string.

**Return type** `string`

`ansicolor.ansicolor.justify_formatted` (*s*, *justify\_func*, *width*)

Justify a formatted string to a width using a function (eg. `string.ljust`).

**Parameters**

- `s` (*string*) – The formatted string.
- `justify_func` – The justify function.
- `width` (*int*) – The width at which to justify.

**Return type** `string`

`ansicolor.ansicolor.colordiff` (*x*, *y*, *color\_x*=<class 'ansicolor.ansicolor.Cyan'>, *color\_y*=<class 'ansicolor.ansicolor.Green'>, *debug*=False)

Formats a diff of two strings using the longest common subsequence by highlighting characters that differ between the strings.

Returns the strings *x* and *y* with highlighting.

**Parameters**

- `x` (*string*) – The first string.
- `y` (*string*) – The second string.
- `color_x` (`Colors` class) – The color to use for the first string.
- `color_y` (`Colors` class) – The color to use for the second string.
- `debug` (*bool*) – Whether to print debug output underway.

**Return type** `tuple`

`ansicolor.ansicolor.set_term_title` (*s*)

Set the title of a terminal window.

**Parameters** `s` (*string*) – The title.

`ansicolor.ansicolor.write_out` (*s*)

Write a string to `sys.stdout`, strip escapes if output is a pipe.

**Parameters** `s` (*string*) – The title.

`ansicolor.ansicolor.write_err` (*s*)

Write a string to `sys.stderr`, strip escapes if output is a pipe.

**Parameters** `s` (*string*) – The title.

**class** `ansicolor.ansicolor.Colors`

Bases: `object`

Container class for colors

**class** `Black`

Bases: `object`

`id = 0`

```
class Colors.Blue
    Bases: object
    id = 4

class Colors.Cyan
    Bases: object
    id = 6

class Colors.Green
    Bases: object
    id = 2

class Colors.Magenta
    Bases: object
    id = 5

class Colors.Red
    Bases: object
    id = 1

class Colors.White
    Bases: object
    id = 7

class Colors.Yellow
    Bases: object
    id = 3

classmethod Colors.iter()
classmethod Colors.new(colorname)
```

## ansicolor.demos module

```
ansicolor.demos.demo_color()
ansicolor.demos.demo_diff()
ansicolor.demos.demo_highlight()
ansicolor.demos.demo_highlight_reverse()
```

## Module contents

```
ansicolor.black(s, bold=False, reverse=False)
    Colorize string in black
```

### Parameters

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.blue` (*s*, *bold=False*, *reverse=False*)

Colorize string in blue

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.cyan` (*s*, *bold=False*, *reverse=False*)

Colorize string in cyan

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.green` (*s*, *bold=False*, *reverse=False*)

Colorize string in green

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.magenta` (*s*, *bold=False*, *reverse=False*)

Colorize string in magenta

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.red` (*s*, *bold=False*, *reverse=False*)

Colorize string in red

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.white` (*s*, *bold=False*, *reverse=False*)

Colorize string in white

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.yellow(s, bold=False, reverse=False)`  
Colorize string in yellow

**Parameters**

- **s** (*string*) – The string to colorize.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.colorize(s, color, bold=False, reverse=False, start=None, end=None)`  
Colorize a string with the color given.

**Parameters**

- **s** (*string*) – The string to colorize.
- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.
- **start** (*int*) – Index at which to start coloring.
- **end** (*int*) – Index at which to end coloring.

**Return type** string

`ansicolor.wrap_string(s, pos, color, bold=False, reverse=False)`  
Colorize the string up to a position.

**Parameters**

- **s** (*string*) – The string to colorize.
- **pos** (*int*) – The position at which to stop.
- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

Deprecated since version 0.2.2: This function has been deprecated in favor of `colorize()`.

`ansicolor.get_code(color, bold=False, reverse=False)`  
Returns the escape code for styling with the given color, in bold and/or reverse.

**Parameters**

- **color** (*Colors* class) – The color to use.
- **bold** (*bool*) – Whether to mark up in bold.
- **reverse** (*bool*) – Whether to mark up in reverse video.

**Return type** string

`ansicolor.highlight_string(s, *spanlists, **kw)`

Highlight spans in a string using a list of (begin, end) pairs. Each list is treated as a layer of highlighting. Up to four layers of highlighting are supported.

**Parameters**

- **s** (*string*) – The string to highlight
- **spanlists** (*list*) – A list of tuples on the form [(begin, end) \*] \*
- **kw** – May include: *bold*, *reverse*, *color*, *colors* and *nocolor*

**Return type** string

Deprecated since version 0.2.3: The *color* parameter has been deprecated in favor of *colors*.

`ansicolor.get_highlighter(colorid)`

Map a color index to a highlighting color.

**Parameters** **colorid** (*int*) – The index.

**Return type** *Colors*

`ansicolor.strip_escapes(s)`

Strips escapes from the string.

**Parameters** **s** (*string*) – The string.

**Return type** string

`ansicolor.justify_formatted(s, justify_func, width)`

Justify a formatted string to a width using a function (eg. `string.ljust`).

**Parameters**

- **s** (*string*) – The formatted string.
- **justify\_func** – The justify function.
- **width** (*int*) – The width at which to justify.

**Return type** string

`ansicolor.colordiff(x, y, color_x=<class 'ansicolor.ansicolor.Cyan'>, color_y=<class 'ansicolor.ansicolor.Green'>, debug=False)`

Formats a diff of two strings using the longest common subsequence by highlighting characters that differ between the strings.

Returns the strings *x* and *y* with highlighting.

**Parameters**

- **x** (*string*) – The first string.
- **y** (*string*) – The second string.
- **color\_x** (*Colors* class) – The color to use for the first string.
- **color\_y** (*Colors* class) – The color to use for the second string.
- **debug** (*bool*) – Whether to print debug output underway.

**Return type** tuple

`ansicolor.set_term_title(s)`

Set the title of a terminal window.



**Parameters** *s* (*string*) – The title.

`ansicolor.write_out(s)`

Write a string to `sys.stdout`, strip escapes if output is a pipe.

**Parameters** *s* (*string*) – The title.

`ansicolor.write_err(s)`

Write a string to `sys.stderr`, strip escapes if output is a pipe.

**Parameters** *s* (*string*) – The title.

**class** `ansicolor.Colors`

Bases: `object`

Container class for colors

**class** `Black`

Bases: `object`

`id = 0`

**class** `Colors.Blue`

Bases: `object`

`id = 4`

**class** `Colors.Cyan`

Bases: `object`

`id = 6`

**class** `Colors.Green`

Bases: `object`

`id = 2`

**class** `Colors.Magenta`

Bases: `object`

`id = 5`

**class** `Colors.Red`

Bases: `object`

`id = 1`

**class** `Colors.White`

Bases: `object`

`id = 7`

**class** `Colors.Yellow`

Bases: `object`

`id = 3`

**classmethod** `Colors.iter()`

**classmethod** `Colors.new(colortname)`



### Release notes

#### 0.2.4

- First version supporting Python 3.4!

#### 0.2.3

- `ansicolor.highlight_string()` accepts a new kwarg `colors`. `color` has been deprecated.

#### 0.2.2

- `ansicolor.colorize()` now accepts `start` and `end` kwargs. `ansicolor.wrap_string()` has been deprecated.



## CHAPTER 4

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### Indices and tables

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