

Converting Colors

XYZ(31.1600, 49.0438, 49.8200)

Have a look what the booklet for
XYZ(31.1600, 49.0438, 49.8200)
contains.

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Color

**XYZ(31.1456, 48.9747,
49.9310)**

Conversions

Conversions Part 1

| Format | Color |
|-------------|-------------------------------|
| Hex | 15D1B2 |
| RGB | 21, 209, 178 |
| RGB Percent | 8%, 82%, 70% |
| CMY | 0.9176, 0.1804, 0.3020 |
| CMYK | 0.90, 0.00, 0.15, 0.18 |
| HSL | 170°, 82%, 45% |
| HSV | 170°, 90%, 82% |
| XYZ | 31.1456, 48.9747, 49.9310 |
| YIQ | 149.2540, -102.0970, -49.4970 |

Conversions

Conversions Part 2

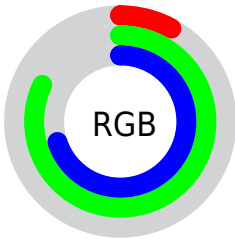
| Format | Color |
|-------------------------------------|--|
| RYB | 21, 123, 209 |
| Decimal | 1429938 |
| CIELab | 75.44, -49.41, 3.42 |
| CIELCh | 75, 49.525, 176.042 |
| Yxy | 48.9747, 0.2395, 0.3766 |
| Android (android.graphics.Color) | 4279620018 (0xFF15D1B2) |
| YUV | 149.2540, 14.1718, -112.4788 |
| Hunter-Lab | 69.9819, -43.0266, 6.6849 |

Details

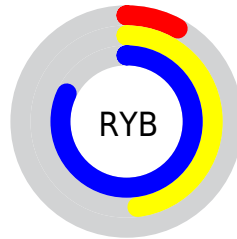
The XYZ color **31.1456, 48.9747, 49.9310** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle washed spring green. A complement of this color would be **27.1843, 14.3410, 4.5867**, and the grayscale version is **28.6501, 30.1421, 32.8247**.

A 20% lighter version of the original color is **56.9180, 80.7117, 90.4209**, and **15.0929, 24.2631, 23.2898** is the 20% darker color. If you saturate the color by 10%, you get **30.4970, 48.6810, 48.1176**, and if you desaturate by 10%, it is **32.1394, 49.4477, 51.8082**.

Distribution



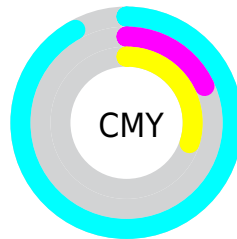
- Red (8%)
- Green (82%)
- Blue (70%)



- Red (8%)
- Yellow (48%)
- Blue (82%)



- Cyan (90%)
- Magenta (0%)
- Yellow (15%)
- Black (18%)





- Cyan (92%)
- Magenta (18%)
- Yellow (30%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.1456, 48.9747, 49.9310 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 31.1456, 48.9747, 49.9310 by changing the saturation by 10% instead.


 31.1456, 48.9747,
49.9310


 31.1456, 48.9747,
49.9310


299.0235,
382.6427, 403.1234


 20.8621, 34.5994,
34.9878


 60.8435, 88.6539,
91.4679


 13.1351, 23.3545,
23.3700

 80.9887, 114.7266,
118.8986


 7.5993, 14.8555,
14.6591


 105.1517,
145.4671, 151.3290

 3.8893, 8.7180,
8.4365

 133.6981,
181.2601, 189.1774

 1.6397, 4.5577,
4.2838

 166.9931,
222.4897, 232.8626

 0.4181, 1.9902,
1.7823

205.4021,

 0.0000, 0.6018,

269.5404, 282.8029

0.4162

249.2904,
322.7966, 339.4170

■ 0.0000, 0.0000,
0.0000

■ 31.1456, 48.9747,
49.9310

■ 31.1456, 48.9747,
49.9310

■ 30.4970, 48.6810,
48.1176

■ 32.1394, 49.4477,
51.8082

■ 30.4935, 48.6794,
48.1074

■ 33.5856, 50.1517,
53.7511

■ 35.5465, 51.1201,
55.7642

■ 38.0736, 52.3793,
57.8502

■ 41.2121, 53.9526,
60.0114

■ 45.0024, 55.8610,
62.2501

■ 49.4818, 58.1235,
64.5684

■ 54.6843, 60.7578,
66.9682

■ 60.6420, 63.7803,
69.4512

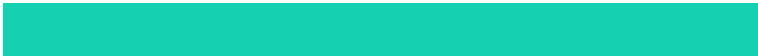
Harmonies

Analogous

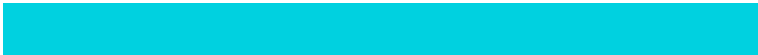
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.4581, 48.9747, 29.8907



31.1456, 48.9747, 49.9310



32.4956, 48.9747, 78.5725

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.1456, 48.9747, 49.9310



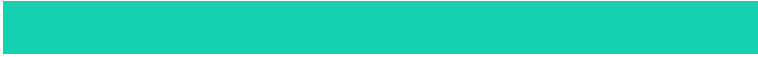
54.6860, 48.9747, 112.4233



57.0552, 48.9747, 21.5585

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.1456, 48.9747, 49.9310



27.1843, 14.3410, 4.5867

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



64.1625, 48.9747, 34.1641



31.1456, 48.9747, 49.9310



62.6741, 48.9747, 86.6118

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.1456, 48.9747, 49.9310



45.3483, 48.9747, 120.8163



66.3416, 48.9747, 56.8697



47.7707, 48.9747, 17.2599

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.1456, 48.9747, 49.9310



35.3999, 48.9747, 98.3003



66.3416, 48.9747, 56.8697



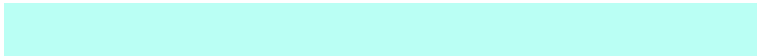
59.8230, 48.9747, 24.7124

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.1470, 48.9766, 49.9322



72.3215, 88.4880, 98.5742



24.3711, 46.3961, 8.3813



14.9938, 18.6949, 20.8340



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.1470, 48.9766, 49.9322



47.7634, 76.3214, 75.1291



22.1504, 25.4267, 64.0641



12.0711, 13.3722, 14.7310



18.8320, 30.0257, 29.8250



1.0758, 1.6880, 1.7879

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



27.1843, 14.3410, 4.5867



41.6589, 21.4276, 4.1358



29.5766, 19.9012, 2.9929



11.8871, 11.8396, 12.6815



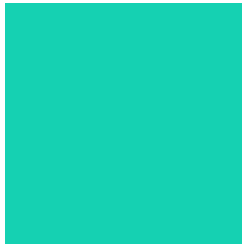
16.4191, 8.4405, 1.8471



0.9434, 0.4821, 0.2365

Previews

White Background



This preview shows how the XYZ color 31.1456, 48.9747, 49.9310 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 31.1456, 48.9747, 49.9310 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

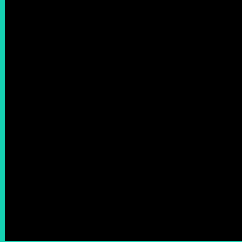
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

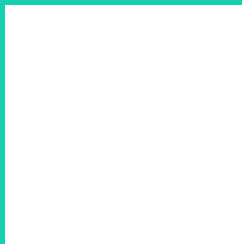
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.1456, 48.9747, 49.9310

Background



This preview shows how black text looks on a background with the XYZ color 31.1456, 48.9747, 49.9310.

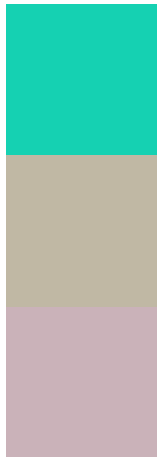


This preview shows how white text looks on a background with the XYZ color 31.1456, 48.9747,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

31.1456, 48.9747, 49.9310

Protanopia

45.5796, 48.1678, 42.0170

Deuteranopia

49.0345, 47.9001, 52.5602



Tritanopia

36.1987, 48.8713, 75.2354

Trichromacy



Original Color

31.1456, 48.9747, 49.9310



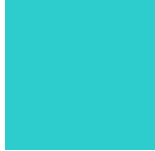
Protanomaly

35.4373, 45.7503, 44.4991



Deuteranomaly

36.7944, 45.0068, 51.0039



Tritanomaly

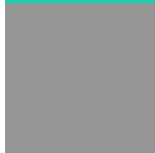
33.9775, 48.6513, 65.3574

Monochromacy



Original Color

31.1456, 48.9747, 49.9310



Achromatopsia

28.5667, 30.0544, 32.7292



Achromatomaly

26.3876, 34.4887, 38.5239

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1456, 48.9747, 49.9310 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(21, 209, 178)` looks like.

```
.text, #text, p{  
    color:rgb(21, 209, 178)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(21, 209, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 209, 178) }
```

Border

The CSS property to change the border of an element to XYZ 31.1456, 48.9747, 49.9310 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(21, 209, 178) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(21, 209, 178) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(21, 209, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 209, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 209, 178);  
box-shadow:4px 4px 4px 4px rgb(21, 209,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1456, 48.9747, 49.9310 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 209, 178) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(21, 209,  
178) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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