

Converting Colors

XYZ(31.7967, 51.0827, 43.0597)

Have a look what the booklet for
XYZ(31.7967, 51.0827, 43.0597)
contains.

XYZ(31.6717, 50.8858, 42.8030)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.6717, 50.8858,
42.8030)**

Conversions

Conversions Part 1

Format	Color
Hex	31D5A3
RGB	49, 213, 163
RGB Percent	19%, 84%, 64%
CMY	0.8078, 0.1647, 0.3608
CMYK	0.77, 0.00, 0.23, 0.16
HSL	162°, 66%, 51%
HSV	162°, 77%, 84%
XYZ	31.6717, 50.8858, 42.8030
YIQ	158.2640, -81.6940, -50.3180

Conversions

Conversions Part 2

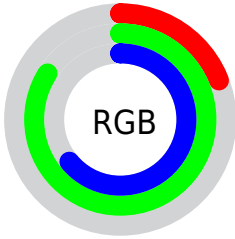
Format	Color
RYB	49, 146, 213
Decimal	3265955
CIELab	76.61, -52.54, 13.16
CIELCh	77, 54.162, 165.936
Yxy	50.8858, 0.2526, 0.4059
Android (android.graphics.Color)	4281456035 (0xFF31D5A3)
YUV	158.2640, 2.3348, -95.8245
Hunter-Lab	71.3343, -45.5828, 14.3580

Details

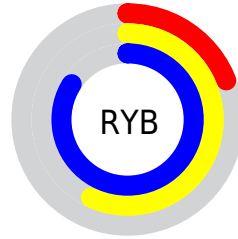
The XYZ color **31.6717, 50.8858, 42.8030** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle muted spring green. A complement of this color would be **30.7927, 17.2448, 13.5120**, and the grayscale version is **32.6370, 34.3367, 37.3927**.

A 20% lighter version of the original color is **56.3000, 80.6469, 78.9288**, and **14.9262, 25.2616, 19.1282** is the 20% darker color. If you saturate the color by 10%, you get **30.3098, 50.2505, 39.7801**, and if you desaturate by 10%, it is **33.5512, 51.7870, 46.0084**.

Distribution



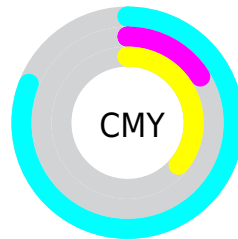
- Red (19%)
- Green (84%)
- Blue (64%)



- Red (19%)
- Yellow (57%)
- Blue (84%)



- Cyan (77%)
- Magenta (0%)
- Yellow (23%)
- Black (16%)





- Cyan (81%)
- Magenta (16%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6717, 50.8858, 42.8030 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 31.6717, 50.8858, 42.8030 by changing the saturation by 10% instead.


 31.6717, 50.8858,
42.8030


 31.6717, 50.8858,
42.8030


301.3929,
390.1199, 373.6984


 21.2652, 36.1177,
29.4003


 61.6647, 91.4859,
80.6967


 13.4316, 24.5251,
19.1357


 81.9820, 118.0868,
106.0247


 7.8054, 15.7236,
11.5906


 106.3335,
149.4007, 136.1650

 4.0214, 9.3288,
6.3464

 135.0847,
185.8121, 171.5360

 1.7143, 4.9563,
2.9847

 168.6009,
227.7053, 212.5563

 0.4652, 2.2216,
1.0868

207.2474,

 0.0000, 0.7317,

275.4647, 259.6444

0.0000

251.3896,
329.4748, 313.2190

■ 0.0000, 0.0000,
0.0000

■ 31.6717, 50.8858,
42.8030

■ 31.6717, 50.8858,
42.8030

■ 30.3098, 50.2505,
39.7801

■ 33.5512, 51.7870,
46.0084

■ 29.3814, 49.8340,
36.9301


■ 36.0051, 52.9796,
49.3978

■ 29.1452, 49.7303,
36.1047


■ 39.0870, 54.4923,
52.9771


■ 42.8428, 56.3489,
56.7506

■ 47.3144, 58.5708,
60.7225

 52.5398, 61.1776,
64.8965

 58.5547, 64.1877,
69.2764

 65.3920, 67.6179,
73.8657

 73.0830, 71.4845,
78.6680

Harmonies

Analogous

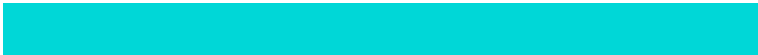
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.5535, 50.8858, 24.7171



31.6717, 50.8858, 42.8030



31.7974, 50.8858, 72.3728

Triad

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



31.6717, 50.8858, 42.8030



53.9746, 50.8858, 129.2275



63.3897, 50.8858, 23.9645

Complementary

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



31.6717, 50.8858, 42.8030



30.7927, 17.2448, 13.5120

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.



69.8731, 50.8858, 41.3226



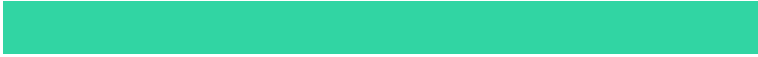
31.6717, 50.8858, 42.8030



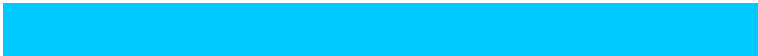
63.9358, 50.8858, 104.5954

Square

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



31.6717, 50.8858, 42.8030



43.7373, 50.8858, 130.0677



70.0860, 50.8858, 70.2678



53.3090, 50.8858, 16.7359

Rectangle

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



31.6717, 50.8858, 42.8030



34.1124, 50.8858, 95.5199



70.0860, 50.8858, 70.2678



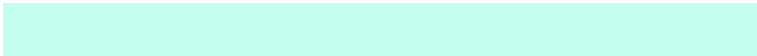
66.1208, 50.8858, 28.4666

Sweetspot

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



31.6731, 50.8878, 42.8042



73.9194, 89.4241, 93.5758



29.7096, 50.5752, 11.1026



15.2361, 18.8486, 19.5464



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.



31.6731, 50.8878, 42.8042



44.6532, 75.1115, 57.2023



30.1982, 39.2985, 68.9469



12.6234, 14.0404, 15.0974



17.8499, 30.3953, 22.3031



1.1127, 1.8477, 1.5352

Inverse Universe

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



30.7927, 17.2448, 13.5120



43.4259, 22.5460, 12.1717



30.7973, 19.9709, 5.1380



12.5776, 12.4825, 13.7158



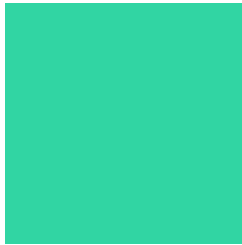
17.3838, 8.8898, 4.0593



1.0851, 0.5508, 0.4373

Previews

White Background



This preview shows how the XYZ color 31.6717, 50.8858, 42.8030 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 31.6717, 50.8858, 42.8030 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

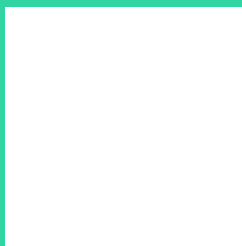
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.6717, 50.8858, 42.8030

Background



This preview shows how black text looks on a background with the XYZ color 31.6717, 50.8858, 42.8030.

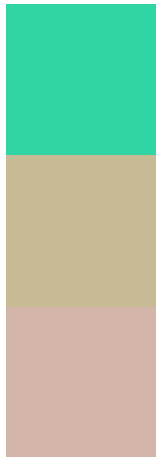


This preview shows how white text looks on a background with the XYZ color 31.6717, 50.8858,

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

31.6717, 50.8858, 42.8030

Protanopia

46.8285, 49.8848, 36.0148

Deuteranopia

50.9309, 49.9471, 44.9866



Tritanopia

38.4095, 50.6859, 76.8662

Trichromacy



Original Color

31.6717, 50.8858, 42.8030



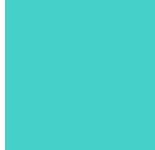
Protanomaly

37.1579, 47.7757, 38.2736



Deuteranomaly

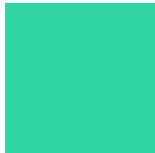
39.1819, 47.7023, 43.7016



Tritanomaly

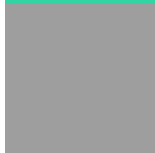
35.5527, 50.5940, 63.1501

Monochromacy



Original Color

31.6717, 50.8858, 42.8030



Achromatopsia

32.4990, 34.1914, 37.2345



Achromatomaly

29.7368, 38.2304, 39.0696

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6717, 50.8858, 42.8030 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(49, 213, 163)` looks like.

```
.text, #text, p{  
    color:rgb(49, 213, 163)  
}
```

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(49, 213, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 213, 163) }
```

Border

The CSS property to change the border of an element to XYZ 31.6717, 50.8858, 42.8030 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(49, 213, 163) }
```


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

```
.border{ border-color:rgb(49, 213, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 213, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 213, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 213, 163);  
box-shadow:4px 4px 4px 4px rgb(49, 213,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6717, 50.8858, 42.8030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 213, 163) }
```

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

```
.background{ background-color: rgb(49, 213,  
163) }
```

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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