

# Converting Colors

XYZ(13.3117, 34.1426, 22.5587)

Have a look what the booklet for  
XYZ(13.3117, 34.1426, 22.5587)  
contains.

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# Color

**XYZ(21.7832, 38.5226,  
22.8105)**

# Conversions

Conversions Part 1	
Format	Color
Hex	00BF74
RGB	0, 191, 116
RGB Percent	0%, 75%, 45%
CMY	1.0000, 0.2510, 0.5451
CMYK	1.00, 0.00, 0.39, 0.25
HSL	156°, 100%, 37%
HSV	156°, 100%, 75%
XYZ	21.7832, 38.5226, 22.8105
YIQ	125.3410, -89.7610, -63.8170

# Conversions

## Conversions Part 2

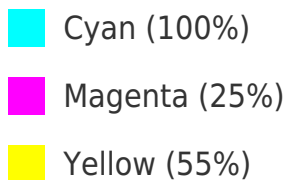
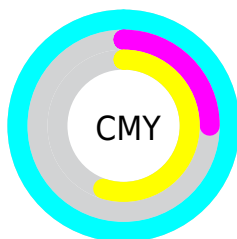
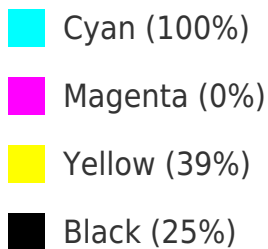
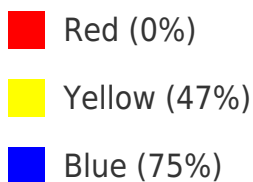
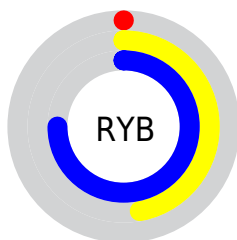
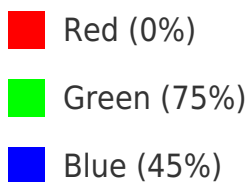
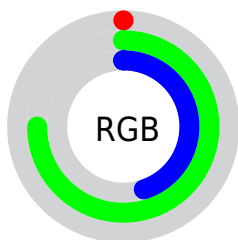
Format	Color
<a href="#">RYB</a>	<a href="#">0, 119, 191</a>
Decimal	<a href="#">49012</a>
CIELab	<a href="#">68.40, -57.83, 26.74</a>
CIELCh	<a href="#">68, 63.711, 155.183</a>
Yxy	<a href="#">38.5226, 0.2621, 0.4635</a>
Android (android.graphics.Color)	<a href="#">4278239092</a> <a href="#">(0xFF00BF74)</a>
YUV	<a href="#">125.3410, -4.6051, -109.9241</a>
Hunter-Lab	<a href="#">62.0666, -45.9692, 21.6565</a>

# Details

The XYZ color **21.7832, 38.5226, 22.8105** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **22.7573, 11.5853, 7.6958**, and the grayscale version is **19.6465, 20.6697, 22.5093**.

A 20% lighter version of the original color is **46.0741, 73.2126, 49.2392**, and **9.8173, 18.0136, 8.2697** is the 20% darker color. If you saturate the color by 10%, you get **21.7837, 38.5239, 22.8099**, and if you desaturate by 10%, it is **22.5090, 38.8453, 25.2159**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.7832, 38.5226, 22.8105 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 21.7832, 38.5226, 22.8105 by changing the saturation by 10% instead.





 21.7832, 38.5226,  
22.8105


 21.7832, 38.5226,  
22.8105


254.0657,  
339.8565, 279.8405


 13.8134, 26.3885,  
14.2497


 45.8689, 72.9084,  
49.0012


 8.0718, 17.1145,  
8.1538


 62.7156, 95.9290,  
67.4682

 4.1931, 10.3162,  
4.1043


 83.2519, 123.3472,  
90.0743

 1.8120, 5.6091,  
1.6828

 107.8432,  
155.5475, 117.2380

 0.5249, 2.6089,  
0.3489

 136.8549,  
192.9141, 149.3780

 0.0000, 0.9311,  
0.0000


170.6523,

 0.0000, 0.0000,

235.8316, 186.9127


0.0000

209.6008,  
284.6842, 230.2607


 21.7832, 38.5226,  
22.8105


 21.7832, 38.5226,  
22.8105


 21.7837, 38.5239,  
22.8099


 22.5090, 38.8453,  
25.2159


 23.5357, 39.3180,  
27.8226

 24.9608, 39.9918,  
30.6401


 26.8337, 40.8920,  
33.6747

 29.1960, 42.0402,  
36.9320

 32.0847, 43.4552,  
40.4175

 35.5328, 45.1541,  
44.1365

 39.5707, 47.1523,  
48.0936

 44.2265, 49.4642,  
52.2938

# Harmonies

## Analogous

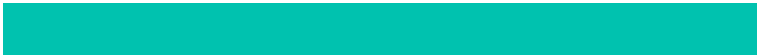
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



26.6118, 38.5226, 11.1081



21.7832, 38.5226, 22.8105



20.6042, 38.5226, 47.1204

# Triad

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



21.7832, 38.5226, 22.8105



38.3798, 38.5226, 124.2081



54.6941, 38.5226, 17.5362

# Complementary

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



21.7832, 38.5226, 22.8105



22.7573, 11.5853, 7.6958

# 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.



59.3072, 38.5226, 37.1623



21.7832, 38.5226, 22.8105



48.8540, 38.5226, 105.0040

# Square

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



21.7832, 38.5226, 22.8105



29.1197, 38.5226, 114.4488



56.9963, 38.5226, 69.5765



45.2964, 38.5226, 9.1796



# Rectangle

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



21.7832, 38.5226, 22.8105



21.8199, 38.5226, 70.0238



56.9963, 38.5226, 69.5765



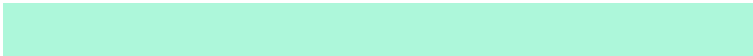
56.9266, 38.5226, 22.5990

# Sweetspot

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



21.7842, 38.5241, 22.8114



63.3160, 80.7095, 78.7152



21.6447, 38.8164, 6.3519



13.3018, 17.4262, 16.6514



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



21.7842, 38.5241, 22.8114



38.8904, 68.9448, 40.2037



24.1388, 33.2304, 54.4340



9.6455, 10.7443, 11.3829



14.3559, 25.3327, 15.2030



0.5936, 1.0048, 0.7603



# Inverse Universe

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



22.7573, 11.5853, 7.6958



40.6452, 20.7034, 13.1958



21.7215, 11.5464, 1.0842



9.6811, 9.5968, 10.7099



14.9921, 7.6280, 5.2519

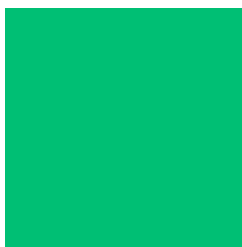


0.6196, 0.3117, 0.3759



# Previews

## White Background



This preview shows how the XYZ color 21.7832, 38.5226, 22.8105 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 21.7832, 38.5226, 22.8105 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 21.7832, 38.5226, 22.8105**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.7832, 38.5226, 22.8105.



This preview shows how white text looks on a background with the XYZ color 21.7832, 38.5226,



# 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

21.7832, 38.5226, 22.8105

### Protanopia

35.0601, 38.0163, 19.1257

### Deuteranopia

38.5419, 37.8536, 24.3439



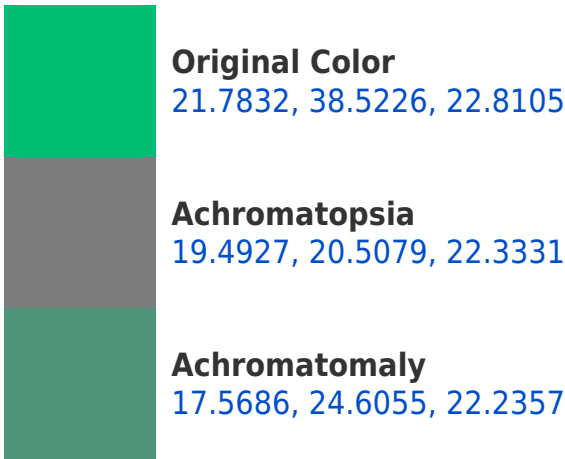
## Tritanopia

28.9419, 38.2985, 58.0915

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.7832, 38.5226, 22.8105 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(0, 191, 116)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 116)  
}
```

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(0, 191, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 116) }
```

## Border

The CSS property to change the border of an element to XYZ 21.7832, 38.5226, 22.8105 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(0, 191, 116) }
```



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

```
.border{ border-color:rgb(0, 191, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 191, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 116);  
box-shadow:4px 4px 4px 4px rgb(0, 191,  
116) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.7832, 38.5226, 22.8105 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 191, 116) }
```

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

```
.background{ background-color: rgb(0, 191,  
116) }
```

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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