

# Converting Colors

XYZ(33.2841, 52.8789, 22.4836)

Have a look what the booklet for  
XYZ(33.2841, 52.8789, 22.4836)  
contains.

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# Color

**XYZ(33.2610, 52.9136,  
22.3702)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6DD76B
RGB	109, 215, 107
RGB Percent	43%, 84%, 42%
CMY	0.5725, 0.1568, 0.5804
CMYK	0.49, 0.00, 0.50, 0.16
HSL	119°, 57%, 63%
HSV	119°, 50%, 84%
XYZ	33.2610, 52.9136, 22.3702
YIQ	170.9940, -28.5080, -56.0600

# Conversions

## Conversions Part 2

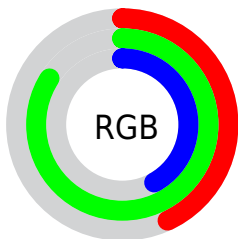
Format	Color
<a href="#">RYB</a>	<a href="#">107, 215, 213</a>
Decimal	<a href="#">7198571</a>
CIELab	<a href="#">77.82, -52.07, 43.75</a>
CIELCh	<a href="#">78, 68.009, 139.960</a>
Yxy	<a href="#">52.9136, 0.3064, 0.4875</a>
Android (android.graphics.Color)	<a href="#">4285388651 (0xFF6DD76B)</a>
YUV	<a href="#">170.9940, -31.5490, -54.3687</a>
Hunter-Lab	<a href="#">72.7417, -45.6793, 32.6858</a>

# Details

The XYZ color **33.2610, 52.9136, 22.3702** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **44.9664, 29.5695, 67.6302**, and the grayscale version is **38.8706, 40.8949, 44.5346**.

A 20% lighter version of the original color is **58.0415, 82.2736, 46.0790**, and **14.2842, 25.6861, 7.9464** is the 20% darker color. If you saturate the color by 10%, you get **29.9761, 51.3366, 17.0284**, and if you desaturate by 10%, it is **37.4528, 54.9288, 29.2245**.

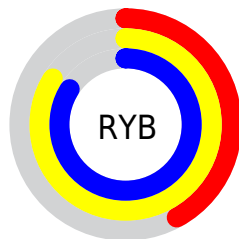
# Distribution



Red (43%)

Green (84%)

Blue (42%)



Red (42%)

Yellow (84%)

Blue (84%)

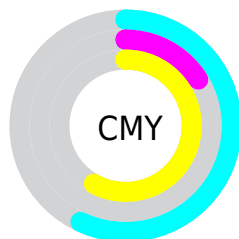


Cyan (49%)

Magenta (0%)

Yellow (50%)

Black (16%)



Cyan (57%)

Magenta (16%)


Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2610, 52.9136, 22.3702 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 33.2610, 52.9136, 22.3702 by changing the saturation by 10% instead.





 33.2610, 52.9136,  
22.3702


 33.2610, 52.9136,  
22.3702


308.4684,  
397.9536, 277.4898

 22.4867, 37.7338,  
13.9283


 64.1348, 94.4772,  
48.2671


 14.3335, 25.7761,  
7.9326


 84.9649, 121.6298,  
66.5592

 8.4363, 16.6563,  
3.9647


 109.8776,  
153.5422, 88.9717

 4.4295, 9.9897,  
1.6060

 139.2384,  
190.5986, 115.9231

 1.9479, 5.3921,  
0.2951

173.4125,  
233.1836, 147.8322

 0.6044, 2.4791,  
0.0000

212.7653,

 0.0000, 0.8662,

281.6815, 185.1173

0.0000

257.6621,  
336.4767, 228.1970

■ 0.0000, 0.0000,  
0.0000

■ 33.2610, 52.9136,  
22.3702

■ 33.2610, 52.9136,  
22.3702

■ 29.9761, 51.3366,  
17.0284

■ 37.4528, 54.9288,  
29.2245

■ 27.5277, 50.1592,  
13.0816

■ 42.6076, 57.4041,  
37.6902

■ 25.8414, 49.3475,  
10.4009


■ 48.7815, 60.3681,  
47.8616


■ 24.8277, 48.8586,  
8.8316

■ 56.0250, 63.8450,  
59.8252

■ 24.3513, 48.6286,  
8.1028

■ 64.3855, 67.8574,  
73.6612

 73.9075, 72.4267,  
89.4453

 83.5915, 77.0829,  
105.0805

# Harmonies

## Analogous

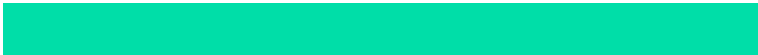
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.1190, 52.9136, 12.7479



33.2610, 52.9136, 22.3702



29.2173, 52.9136, 45.8519

# Triad

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



33.2610, 52.9136, 22.3702



45.9980, 52.9136, 162.8766



78.1097, 52.9136, 36.1977

# Complementary

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



33.2610, 52.9136, 22.3702



44.9664, 29.5695, 67.6302

# 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.



79.6427, 52.9136, 71.2328



33.2610, 52.9136, 22.3702



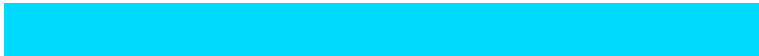
59.4611, 52.9136, 156.4600

# Square

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



33.2610, 52.9136, 22.3702



35.6722, 52.9136, 133.0750



72.3266, 52.9136, 118.1444



68.4451, 52.9136, 17.9664

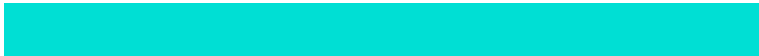


# Rectangle

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



33.2610, 52.9136, 22.3702



29.2131, 52.9136, 71.1189



72.3266, 52.9136, 118.1444



79.6510, 52.9136, 45.9369

# Sweetspot

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



33.2623, 52.9158, 22.3714



77.0034, 91.3387, 79.0469



54.0743, 62.2988, 23.0856



16.0036, 19.3206, 16.1294



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.



33.2623, 52.9158, 22.3714



43.9642, 75.4724, 24.8208



36.4855, 54.1770, 40.6134



12.2834, 13.9068, 13.1976



14.5742, 29.0896, 4.8467



0.8867, 1.7585, 0.2927



# Inverse Universe

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



44.9664, 29.5695, 67.6302



63.0074, 37.4497, 98.5154



40.0390, 27.6659, 38.6381



12.9293, 12.6204, 15.6921



23.4186, 11.2252, 39.3855



1.4199, 0.6809, 2.3759



# Previews

## White Background



This preview shows how the XYZ color 33.2610, 52.9136, 22.3702 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

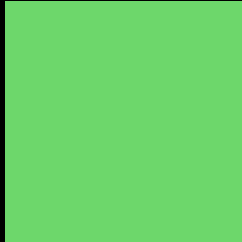
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.2610, 52.9136, 22.3702 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

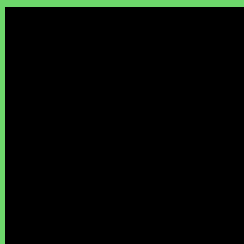
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.2610, 52.9136, 22.3702**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2610, 52.9136, 22.3702.



This preview shows how white text looks on a background with the XYZ color 33.2610, 52.9136,



# 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

33.2610, 52.9136, 22.3702

### Protanopia

47.7469, 52.0113, 19.3270

### Deuteranopia

53.1012, 51.8495, 23.4289



## Tritanopia

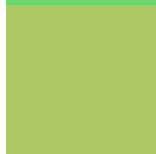
43.8150, 52.8129, 74.9024

# Trichromacy



## Original Color

33.2610, 52.9136, 22.3702



## Protanomaly

40.5081, 51.2665, 20.3308



## Deuteranomaly

42.7099, 50.3182, 22.7906



## Tritanomaly

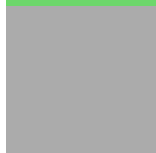
38.6609, 52.1251, 50.1430

# Monochromacy



## Original Color

33.2610, 52.9136, 22.3702



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

35.3284, 43.9747, 34.6429

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2610, 52.9136, 22.3702 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(109, 215, 107)` looks like.

```
.text, #text, p{  
    color:rgb(109, 215, 107)  
}
```

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(109, 215, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 215, 107) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2610, 52.9136, 22.3702 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(109, 215, 107) }
```



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

```
.border{ border-color:rgb(109, 215, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 215, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(109, 215, 107); -webkit-box-shadow:4px 4px 4px 4px rgb(109, 215, 107); box-shadow:4px 4px 4px 4px rgb(109, 215, 107) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.2610, 52.9136, 22.3702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 215, 107) }
```

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

```
.background{ background-color: rgb(109,  
215, 107) }
```

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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