

# Converting Colors

XYZ(20.7825, 33.6515, 12.7625)

Have a look what the booklet for  
XYZ(20.7825, 33.6515, 12.7625)  
contains.

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# Color

**XYZ(20.7744, 33.5936,  
12.7864)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56B04F
RGB	86, 176, 79
RGB Percent	34%, 69%, 31%
CMY	0.6627, 0.3098, 0.6902
CMYK	0.51, 0.00, 0.55, 0.31
HSL	116°, 38%, 50%
HSV	116°, 55%, 69%
XYZ	20.7744, 33.5936, 12.7864
YIQ	138.0320, -22.5030, -49.2470

# Conversions

## Conversions Part 2

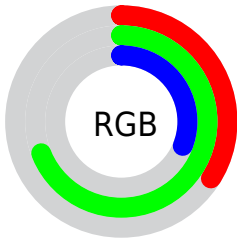
<b>Format</b>	<b>Color</b>
<b>RYB</b>	79, 176, 169
Decimal	5681231
CIELab	64.64, -46.40, 41.09
CIELCh	65, 61.977, 138.469
Yxy	33.5936, 0.3094, 0.5002
Android (android.graphics.Color)	4283871311 (0xFF56B04F)
YUV	138.0320, -29.1028, -45.6321
Hunter-Lab	57.9600, -37.4508, 27.4922

# Details

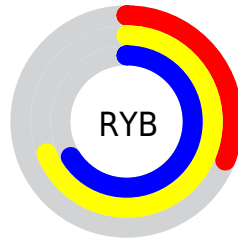
The XYZ color **20.7744, 33.5936, 12.7864** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **26.9962, 17.1626, 42.9659**, and the grayscale version is **24.2842, 25.5489, 27.8227**.

A 20% lighter version of the original color is **44.1087, 65.1027, 31.7140**, and **7.5000, 14.1735, 3.4391** is the 20% darker color. If you saturate the color by 10%, you get **18.8813, 32.6831, 9.7852**, and if you desaturate by 10%, it is **23.1823, 34.7518, 16.6984**.

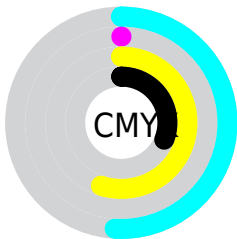
# Distribution



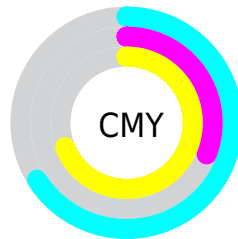
- Red (34%)
- Green (69%)
- Blue (31%)



- Red (31%)
- Yellow (69%)
- Blue (66%)



- Cyan (51%)
- Magenta (0%)
- Yellow (55%)
- Black (31%)



- Cyan (66%)
- Magenta (31%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7744, 33.5936, 12.7864 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 20.7744, 33.5936, 12.7864 by changing the saturation by 10% instead.



■ 20.7744, 33.5936,  
12.7864

■ 20.7744, 33.5936,  
12.7864

248.8316,  
318.3161, 220.7037

■ 13.0707, 22.5816,  
7.1526

■ 44.2059, 65.3012,  
31.6050

■ 7.5546, 14.2848,  
3.4778

■ 60.6644, 86.7655,  
45.6270

■ 3.8607, 8.3190,  
1.3435

■ 80.7719, 112.4828,  
63.2821

■ 1.6236, 4.2998,  
0.0970

■ 104.8937,  
142.8373, 84.9889

■ 0.4077, 1.8426,  
0.0000

■ 133.3952,  
178.2135, 111.1659

■ 0.0000, 0.5135,  
0.0000

166.6418,

■ 0.0000, 0.0000,

218.9958, 142.2317

0.0000

204.9988,  
265.5685, 178.6048

■ 20.7744, 33.5936,  
12.7864

■ 20.7744, 33.5936,  
12.7864

■ 18.8813, 32.6831,  
9.7852

■ 23.1823, 34.7518,  
16.6984

■ 17.4630, 31.9985,  
7.6193

■ 26.1363, 36.1696,  
21.5842

■ 16.4780, 31.5210,  
6.2048

■ 29.6679, 37.8628,  
27.5040

■ 15.8756, 31.2268,  
5.4376

■ 33.8057, 39.8451,  
34.5123

■ 15.6876, 31.1353,  
5.1829

■ 38.5762, 42.1290,  
42.6598

■ 44.0046, 44.7265,  
51.9942

■ 50.1145, 47.6487,  
62.5602

■ 56.9283, 50.9063,  
74.4005

■ 64.4677, 54.5097,  
87.5554

# Harmonies

## Analogous

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



26.8188, 33.5936, 7.0334



20.7744, 33.5936, 12.7864



17.9479, 33.5936, 27.6448

# Triad

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



20.7744, 33.5936, 12.7864



28.6356, 33.5936, 108.4885



51.0245, 33.5936, 23.1669

# Complementary

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



20.7744, 33.5936, 12.7864



26.9962, 17.1626, 42.9659

# 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.



51.7592, 33.5936, 47.2534



20.7744, 33.5936, 12.7864



37.6519, 33.5936, 105.3565

# Square

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



20.7744, 33.5936, 12.7864



21.8912, 33.5936, 86.7750



46.4984, 33.5936, 79.5407



44.6459, 33.5936, 10.8198



# Rectangle

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



20.7744, 33.5936, 12.7864



17.8402, 33.5936, 44.2649



46.4984, 33.5936, 79.5407



51.9782, 33.5936, 29.8364

# Sweetspot

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



20.7752, 33.5950, 12.7871



59.5741, 71.4316, 59.6414



33.3045, 37.7708, 12.9328



12.5858, 15.3248, 12.3741



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



20.7752, 33.5950, 12.7871



33.6499, 58.9880, 16.8257



22.1057, 34.0564, 22.9936



8.4439, 9.5184, 9.0447



11.5298, 22.8539, 3.8036



0.3814, 0.7287, 0.1205



# Inverse Universe

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



26.9962, 17.1626, 42.9659



46.0240, 26.1319, 77.1135



25.1160, 16.5887, 25.0169



8.7883, 8.6149, 10.7060



16.8984, 8.0473, 30.7996



0.5496, 0.2624, 0.9699



# Previews

## White Background



This preview shows how the XYZ color 20.7744, 33.5936, 12.7864 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 20.7744, 33.5936, 12.7864 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 20.7744, 33.5936, 12.7864**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.7744, 33.5936, 12.7864.



This preview shows how white text looks on a background with the XYZ color 20.7744, 33.5936,



# 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

20.7744, 33.5936, 12.7864

### Protanopia

30.3246, 33.1422, 11.1021

### Deuteranopia

33.6624, 33.1139, 13.4215



## Tritanopia

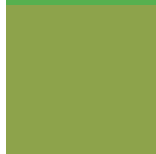
27.6552, 33.2907, 47.6160

# Trichromacy



## Original Color

20.7744, 33.5936, 12.7864



## Protanomaly

25.3517, 32.3651, 11.5675



## Deuteranomaly

26.9084, 32.0962, 12.9606



## Tritanomaly

24.2915, 33.0118, 31.0782

# Monochromacy



## Original Color

20.7744, 33.5936, 12.7864



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

22.0469, 27.6628, 21.0071

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.7744, 33.5936, 12.7864 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(86, 176, 79)` looks like.

```
.text, #text, p{  
    color:rgb(86, 176, 79)  
}
```

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(86, 176, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 176, 79) }
```

## Border

The CSS property to change the border of an element to XYZ 20.7744, 33.5936, 12.7864 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(86, 176, 79) }
```



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

```
.border{ border-color:rgb(86, 176, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 176, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 176, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 176, 79);  
box-shadow:4px 4px 4px 4px rgb(86, 176,  
79) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.7744, 33.5936, 12.7864 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 176, 79) }
```

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

```
.background{ background-color: rgb(86, 176,  
79) }
```

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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