

# Converting Colors

XYZ(66.8748, 80.6008, 12.0328)

Have a look what the booklet for  
XYZ(66.8748, 80.6008, 12.0328)  
contains.

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# Color

**XYZ(67.0953, 80.8454,  
12.0684)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F0F000
RGB	240, 240, 0
RGB Percent	94%, 94%, 0%
CMY	0.0588, 0.0588, 0.9999
CMYK	0.00, 0.00, 1.00, 0.06
HSL	60°, 100%, 47%
HSV	60°, 100%, 94%
XYZ	67.0953, 80.8454, 12.0684
YIQ	212.6400, 77.0400, -74.6400

# Conversions

## Conversions Part 2

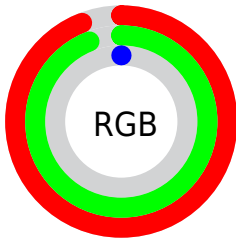
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 240, 0
Decimal	15790080
CIELab	92.06, -20.59, 90.24
CIELCh	92, 92.563, 102.852
Yxy	80.8454, 0.4193, 0.5053
Android (android.graphics.Color)	4293980160 (0xFFFF0F00)
YUV	212.6400, -104.8315, 23.9947
Hunter-Lab	89.9141, -24.1501, 54.9819

# Details

The XYZ color **67.0953, 80.8454, 12.0684** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **15.7300, 6.2927, 82.8286**, and the grayscale version is **63.6519, 66.9668, 72.9268**.

A 20% lighter version of the original color is **78.9758, 93.5703, 24.2543**, and **35.7309, 43.8647, 6.5835** is the 20% darker color. If you saturate the color by 10%, you get **67.0969, 80.8491, 12.0691**, and if you desaturate by 10%, it is **67.2624, 80.9153, 12.9392**.

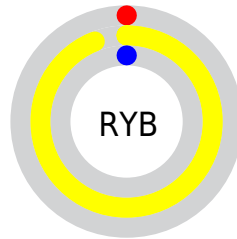
# Distribution



Red (94%)

Green (94%)

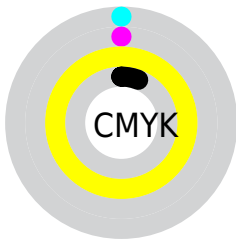
Blue (0%)



Red (0%)

Yellow (94%)

Blue (0%)

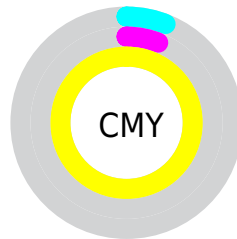


Cyan (0%)

Magenta (0%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (6%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.0953, 80.8454, 12.0684 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 67.0953, 80.8454, 12.0684 by changing the saturation by 10% instead.



67.0953, 80.8454,  
12.0684

67.0953, 80.8454,  
12.0684

439.7111,  
497.7773, 215.8515

49.4331, 60.4143,  
6.6672

114.1060,  
134.5537, 30.2859

35.1791, 43.7526,  
3.1796

144.1852,  
168.5996, 43.9392

23.9680, 30.4761,  
1.1870

179.1340,  
207.9526, 61.1803

15.4345, 20.2002,  
0.0000

219.3179,  
252.9971, 82.4278

9.2132, 12.5407,  
0.0000

265.1022,  
304.1174, 108.1001

4.9387, 7.1130,  
0.0000

316.8523,

2.2457, 3.5329,

361.6979, 138.6158

0.0000

374.9334,  
426.1231, 174.3934

■ 0.7667, 1.4159,  
0.0000

■ 0.0000, 0.2284,  
0.0000

■ 67.0953, 80.8454,  
12.0684

■ 67.0953, 80.8454,  
12.0684

■ 67.0969, 80.8491,  
12.0691

■ 67.2624, 80.9153,  
12.9392

■ 67.6317, 81.0631,  
14.8823

■ 68.2685, 81.3178,  
18.2349

■ 69.2109, 81.6948,  
23.1961

■ 70.4906, 82.2067,  
29.9335

■ 72.1354, 82.8646,  
38.5934

■ 74.1701, 83.6786,  
49.3072

■ 76.6177, 84.6576,  
62.1945

■ 79.4990, 85.8102,  
77.3660

# Harmonies

## Analogous

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



91.1549, 80.8454, 12.7580



67.0953, 80.8454, 12.0684



49.7064, 80.8454, 22.6225

# Triad

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



67.0953, 80.8454, 12.0684



47.9121, 80.8454, 210.7988



129.4533, 80.8454, 132.6527

# Complementary

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



67.0953, 80.8454, 12.0684



15.7300, 6.2927, 82.8286

# 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.



112.3974, 80.8454, 223.4942



67.0953, 80.8454, 12.0684



64.1102, 80.8454, 282.3230

# Square

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



67.0953, 80.8454, 12.0684



40.2727, 80.8454, 120.5527



87.4878, 80.8454, 287.8956



130.7159, 80.8454, 61.9507



# Rectangle

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



67.0953, 80.8454, 12.0684



42.8611, 80.8454, 40.7076



87.4878, 80.8454, 287.8956



125.2375, 80.8454, 162.4876

# Sweetspot

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



67.0971, 80.8492, 12.0700



85.0854, 96.0140, 56.4313



35.9379, 18.5272, 1.6830



17.9888, 20.4618, 10.9045



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.



67.0971, 80.8492, 12.0700



76.9972, 92.7786, 13.8499



38.9107, 66.3186, 10.7509



17.1229, 18.4591, 16.8102



36.7277, 44.2554, 6.6064



3.0554, 3.6816, 0.5496



# Inverse Universe

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



15.7300, 6.2927, 82.8286



18.0501, 7.2200, 95.0500



23.4781, 10.2869, 83.1912



14.8974, 15.2288, 19.8759



8.6099, 3.4440, 45.3388

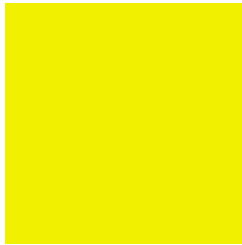


0.7163, 0.2865, 3.7718



# Previews

## White Background



This preview shows how the XYZ color 67.0953, 80.8454, 12.0684 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

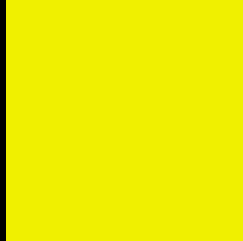
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.0953, 80.8454, 12.0684 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 67.0953, 80.8454, 12.0684

## Background



This preview shows how black text looks on a background with the XYZ color 67.0953, 80.8454, 12.0684.



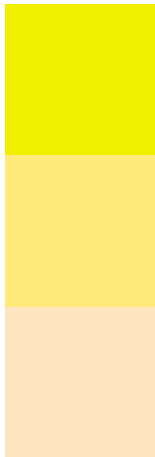
This preview shows how white text looks on a background with the XYZ color 67.0953, 80.8454,



# 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

67.0953, 80.8454, 12.0684

### Protanopia

73.8918, 80.9430, 30.1414

### Deuteranopia

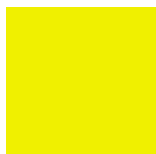
78.4978, 80.5526, 61.2801



## Tritanopia

83.3559, 80.3266, 93.5493

# Trichromacy



## Original Color

67.0953, 80.8454, 12.0684



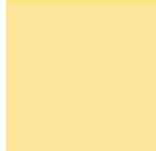
## Protanomaly

70.7949, 80.8650, 19.0849



## Deuteranomaly

71.7938, 79.4424, 29.9623



## Tritanomaly

73.1934, 78.6625, 41.4627

# Monochromacy



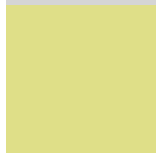
## Original Color

67.0953, 80.8454, 12.0684



## Achromatopsia

63.2451, 66.5387, 72.4607



## Achromatomaly

61.2630, 70.2409, 33.6215

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.0953, 80.8454, 12.0684 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(240, 240, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 240, 0)  
}
```

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(240, 240, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 240, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 67.0953, 80.8454, 12.0684 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(240, 240, 0) }
```



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

```
.border{ border-color:rgb(240, 240, 0) }
```

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

Here you see how a box with a 4 pixel rgb(240, 240, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 240, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 240, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 240,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.0953, 80.8454, 12.0684 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 240, 0) }
```

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

```
.background{ background-color: rgb(240,  
240, 0) }
```

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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