

# Converting Colors

XYZ(71.8315, 75.0716, 11.7302)

Have a look what the booklet for  
XYZ(71.8315, 75.0716, 11.7302)  
contains.

<b>XYZ(67.0310, 72.5255, 11.5028)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# **Color**

**XYZ(67.0310, 72.5255,  
11.5028)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDC1B
RGB	255, 220, 27
RGB Percent	100%, 86%, 11%
CMY	0.0000, 0.1372, 0.8941
CMYK	0.00, 0.14, 0.89, 0.00
HSL	51°, 100%, 55%
HSV	51°, 89%, 100%
XYZ	67.0310, 72.5255, 11.5028
YIQ	208.4630, 82.8130, -52.6030

# Conversions

## Conversions Part 2

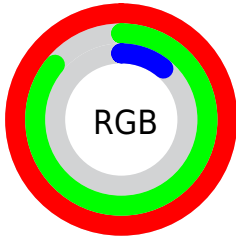
Format	Color
<a href="#">RYB</a>	<a href="#">68, 255, 27</a>
Decimal	<a href="#">16768027</a>
CIELab	<a href="#">88.22, -4.17, 85.14</a>
CIELCh	<a href="#">88, 85.247, 92.804</a>
Yxy	<a href="#">72.5255, 0.4437, 0.4801</a>
Android (android.graphics.Color)	<a href="#">4294958107 (0xFFFFDC1B)</a>
YUV	<a href="#">208.4630, -89.4613, 40.8129</a>
Hunter-Lab	<a href="#">85.1619, -8.5358, 51.6050</a>

# Details

The XYZ color **67.0310, 72.5255, 11.5028** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light washed yellow. A complement of this color would be **20.2251, 10.8990, 95.6447**, and the grayscale version is **60.7832, 63.9487, 69.6401**.

A 20% lighter version of the original color is **79.2046, 93.6618, 25.4593**, and **35.4475, 38.2477, 5.5143** is the 20% darker color. If you saturate the color by 10%, you get **65.8276, 70.4225, 10.1669**, and if you desaturate by 10%, it is **68.5055, 74.7811, 14.1334**.

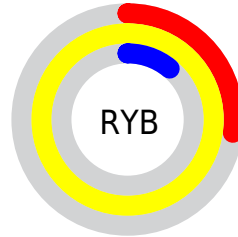
# Distribution



Red (100%)

Green (86%)

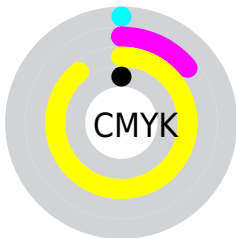
Blue (11%)



Red (27%)

Yellow (100%)

Blue (11%)

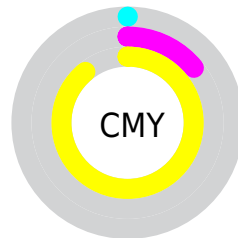


Cyan (0%)

Magenta (14%)

Yellow (89%)

Black (0%)



Cyan (0%)

Magenta (14%)

Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.0310, 72.5255, 11.5028 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 67.0310, 72.5255, 11.5028 by changing the saturation by 10% instead.



67.0310, 72.5255,  
11.5028

67.0310, 72.5255,  
11.5028

439.4859,  
469.3686, 211.9451

49.3806, 53.5881,  
6.2877

114.0144,  
122.8034, 29.2370

35.1373, 38.2724,  
2.9492

144.0781,  
154.9126, 42.5931

23.9356, 26.1942,  
1.0687

179.0103,  
192.1812, 59.5001

15.4104, 16.9690,  
0.0000

219.1763,  
234.9935, 80.3763

9.1961, 10.2124,  
0.0000

264.9415,  
283.7341, 105.6404

4.9274, 5.5400,  
0.0000

316.6713,

2.2391, 2.5674,

338.7872, 135.7108

0.0000

374.7309,  
400.5372, 171.0062

■ 0.7632, 0.9103,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.0310, 72.5255,  
11.5028

■ 67.0310, 72.5255,  
11.5028

■ 65.8276, 70.4225,  
10.1669

■ 68.5055, 74.7811,  
14.1334


■ 65.7598, 70.3002,  
10.1034


■ 70.3132, 77.2059,  
18.4066


■ 72.4995, 79.8211,  
24.5534

■ 75.1013, 82.6417,  
32.7667

 78.1507, 85.6809,  
43.2155

 81.6766, 88.9504,  
56.0513

 85.7055, 92.4611,  
71.4124

 90.2617, 96.2230,  
89.4264

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



88.4689, 72.5255, 15.2516



67.0310, 72.5255, 11.5028



49.7833, 72.5255, 17.1637

# Triad

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



67.0310, 72.5255, 11.5028



40.9299, 72.5255, 156.8482



110.0610, 72.5255, 142.2747

# Complementary

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



67.0310, 72.5255, 11.5028



20.2251, 10.8990, 95.6447

# 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.



92.4549, 72.5255, 216.1090



67.0310, 72.5255, 11.5028



52.5086, 72.5255, 227.0473

# Square

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



67.0310, 72.5255, 11.5028



36.6970, 72.5255, 84.5955



70.8713, 72.5255, 252.8146



116.0278, 72.5255, 73.5956



# Rectangle

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



67.0310, 72.5255, 11.5028



42.1604, 72.5255, 28.6477



70.8713, 72.5255, 252.8146



105.1569, 72.5255, 168.2602

# Sweetspot

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



67.0326, 72.5290, 11.5042



82.5999, 89.7736, 59.5126



42.5864, 22.4261, 7.0868



17.4014, 18.9664, 11.6964



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.



67.0326, 72.5290, 11.5042



65.7604, 70.3008, 10.1035



54.5490, 81.1828, 13.8325



19.3098, 20.5877, 19.1004



34.4508, 36.9129, 5.3091



3.4157, 3.7167, 0.5374



# Inverse Universe

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



20.2251, 10.8990, 95.6447



18.7801, 8.6802, 95.2934



24.0366, 10.8885, 95.4418



17.2280, 17.8277, 22.7830



9.8796, 4.6688, 49.8150



1.0245, 0.5797, 4.8712



# Previews

## White Background



This preview shows how the XYZ color 67.0310, 72.5255, 11.5028 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 67.0310, 72.5255, 11.5028 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 67.0310, 72.5255, 11.5028

## Background



This preview shows how black text looks on a background with the XYZ color 67.0310, 72.5255, 11.5028.



This preview shows how white text looks on a background with the XYZ color 67.0310, 72.5255,



# 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

67.0310, 72.5255, 11.5028

### Protanopia

65.7552, 72.6504, 11.6559

### Deuteranopia

71.5412, 72.2612, 41.6297



## Tritanopia

77.3377, 72.5736, 78.3386

# Trichromacy



## Original Color

67.0310, 72.5255, 11.5028

## Protanomaly

66.2109, 72.4922, 11.6013

## Deuteranomaly

68.8132, 71.9898, 24.7366

## Tritanomaly

70.7916, 71.5551, 38.9346

# Monochromacy



## Original Color

67.0310, 72.5255, 11.5028

## Achromatopsia

59.9535, 63.0757, 68.6895

## Achromatomaly

59.4773, 65.0475, 35.0118

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.0310, 72.5255, 11.5028 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(255, 220, 27)` looks like.

```
.text, #text, p{  
    color:rgb(255, 220, 27)  
}
```

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(255, 220, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 220, 27) }
```

## Border

The CSS property to change the border of an element to XYZ 67.0310, 72.5255, 11.5028 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(255, 220, 27) }
```



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

```
.border{ border-color:rgb(255, 220, 27) }
```

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

Here you see how a box with a 4 pixel rgb(255, 220, 27) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 220, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 220, 27);  
box-shadow:4px 4px 4px 4px rgb(255, 220,  
27) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.0310, 72.5255, 11.5028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 220, 27) }
```

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

```
.background{ background-color: rgb(255,  
220, 27) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor