

# Converting Colors

XYZ(35.3958, 60.2164, 16.5453)

Have a look what the booklet for  
XYZ(35.3958, 60.2164, 16.5453)  
contains.

<b>XYZ(35.3102, 60.0585, 16.5689)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(35.3102, 60.0585,  
16.5689)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68E64C
RGB	104, 230, 76
RGB Percent	41%, 90%, 30%
CMY	0.5922, 0.0980, 0.7019
CMYK	0.55, 0.00, 0.67, 0.10
HSL	109°, 75%, 60%
HSV	109°, 67%, 90%
XYZ	35.3102, 60.0585, 16.5689
YIQ	174.7700, -25.6620, -74.6060

# Conversions

## Conversions Part 2

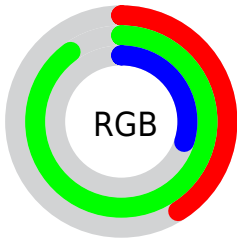
<b>Format</b>	<b>Color</b>
<b>RYB</b>	76, 230, 202
Decimal	6874700
CIELab	81.87, -62.42, 61.97
CIELCh	82, 87.951, 135.207
Yxy	60.0585, 0.3154, 0.5365
Android (android.graphics.Color)	4285064780 (0xFF68E64C)
YUV	174.7700, -48.6936, -62.0653
Hunter-Lab	77.4974, -54.2904, 41.5720

# Details

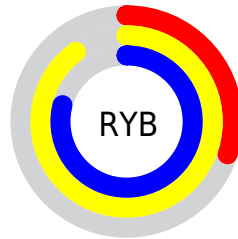
The XYZ color **35.3102, 60.0585, 16.5689** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted chartreuse. A complement of this color would be **41.2282, 23.4410, 77.2178**, and the grayscale version is **40.8833, 43.0124, 46.8405**.

A 20% lighter version of the original color is **55.4419, 81.1853, 34.5780**, and **15.4722, 30.1571, 5.1203** is the 20% darker color. If you saturate the color by 10%, you get **32.7035, 58.7930, 12.9933**, and if you desaturate by 10%, it is **38.6930, 61.6947, 21.6747**.

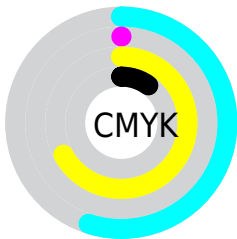
# Distribution



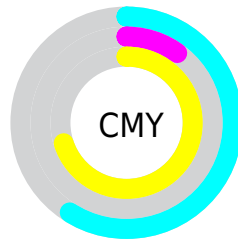
- Red (41%)
- Green (90%)
- Blue (30%)



- Red (30%)
- Yellow (90%)
- Blue (79%)



- Cyan (55%)
- Magenta (0%)
- Yellow (67%)
- Black (10%)




- Cyan (59%)
- Magenta (10%)
- Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.3102, 60.0585, 16.5689 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 35.3102, 60.0585, 16.5689 by changing the saturation by 10% instead.





 35.3102, 60.0585,  
16.5689


 35.3102, 60.0585,  
16.5689


317.4195,  
424.8134, 244.6349


 24.0696, 43.4658,  
9.7689


 67.2969, 104.9145,  
38.3635


 15.5102, 30.2508,  
5.1424


 88.7737, 133.9466,  
54.1952


 9.2669, 20.0290,  
2.2709


 114.3932,  
167.8940, 73.8745

 4.9742, 12.4161,  
0.7148

 144.5208,  
207.1410, 97.8201

 2.2667, 7.0277,  
0.0000

 179.5219,  
252.0720, 126.4503

 0.7776, 3.4795,  
0.0000

219.7618,

 0.0000, 1.3869,

303.0715, 160.1839

0.0000

265.6059,  
360.5238, 199.4392

■ 0.0000, 0.2070,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 35.3102, 60.0585,  
16.5689

■ 35.3102, 60.0585,  
16.5689

■ 32.7035, 58.7930,  
12.9933

■ 38.6930, 61.6947,  
21.6747

■ 30.8036, 57.8607,  
10.7733


■ 42.9047, 63.7203,  
28.4522


■ 29.5338, 57.2288,  
9.6908


■ 47.9983, 66.1615,  
37.0314

■ 29.2452, 57.0844,  
9.4770


■ 54.0211, 69.0403,  
47.5281

 61.0170, 72.3769,  
60.0487

 69.0269, 76.1904,  
74.6917

 78.0895, 80.4986,  
91.5491

 87.4243, 84.9917,  
106.4050

 87.5881, 85.0761,  
106.4127

# Harmonies

## Analogous

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



48.2211, 60.0585, 8.0296



35.3102, 60.0585, 16.5689



29.0544, 60.0585, 42.6065

# Triad

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



35.3102, 60.0585, 16.5689



48.4446, 60.0585, 222.4477



98.9336, 60.0585, 42.0713

# Complementary

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



35.3102, 60.0585, 16.5689



41.2282, 23.4410, 77.2178

# 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.



99.0302, 60.0585, 95.1291



35.3102, 60.0585, 16.5689



66.9709, 60.0585, 222.0146

# Square

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



35.3102, 60.0585, 16.5689



35.4431, 60.0585, 168.1085



86.3550, 60.0585, 167.1281



86.1144, 60.0585, 16.3602



# Rectangle

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



35.3102, 60.0585, 16.5689



28.3990, 60.0585, 75.1201



86.3550, 60.0585, 167.1281



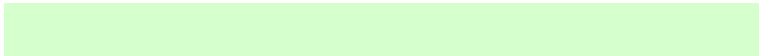
100.5335, 60.0585, 56.5450

# Sweetspot

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



35.3116, 60.0610, 16.5702



74.1783, 90.0663, 70.6017



55.0062, 59.4794, 15.4199



15.3392, 19.0213, 14.1478



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.



35.3116, 60.0610, 16.5702



40.3900, 73.8378, 15.2553



34.9661, 59.6077, 28.9882



14.4325, 16.2145, 15.2735



16.6297, 32.3544, 5.3686



1.2999, 2.4275, 0.4000



# Inverse Universe

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



41.2282, 23.4410, 77.2178



48.1222, 24.4802, 96.7966



43.5843, 25.3393, 46.4380



14.7247, 14.4758, 18.1624



19.9494, 9.3502, 43.1365

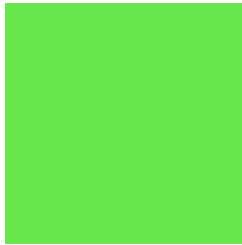


1.5413, 0.7256, 3.1908



# Previews

## White Background



This preview shows how the XYZ color 35.3102, 60.0585, 16.5689 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 35.3102, 60.0585, 16.5689 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 35.3102, 60.0585, 16.5689**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.3102, 60.0585, 16.5689.



This preview shows how white text looks on a background with the XYZ color 35.3102, 60.0585,



# 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

35.3102, 60.0585, 16.5689

### Protanopia

53.5279, 58.8272, 14.0024

### Deuteranopia

60.0354, 58.7278, 17.4039



## Tritanopia

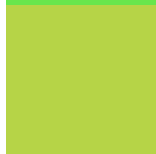
48.8576, 59.5780, 85.2686

# Trichromacy



## Original Color

35.3102, 60.0585, 16.5689



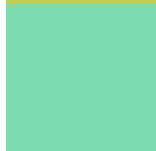
## Protanomaly

43.9722, 57.4870, 14.7398



## Deuteranomaly

46.6975, 56.6530, 16.8614



## Tritanomaly

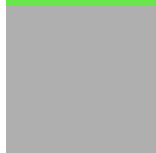
41.6432, 58.5666, 49.6671

# Monochromacy



## Original Color

35.3102, 60.0585, 16.5689



## Achromatopsia

40.7470, 42.8690, 46.6844



## Achromatomaly

36.5697, 47.2839, 31.6254

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.3102, 60.0585, 16.5689 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(104, 230, 76)` looks like.

```
.text, #text, p{  
    color:rgb(104, 230, 76)  
}
```

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(104, 230, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 230, 76) }
```

## Border

The CSS property to change the border of an element to XYZ 35.3102, 60.0585, 16.5689 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(104, 230, 76) }
```



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

```
.border{ border-color:rgb(104, 230, 76) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 230, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 230, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 230, 76);  
box-shadow:4px 4px 4px 4px rgb(104, 230,  
76) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.3102, 60.0585, 16.5689 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 230, 76) }
```

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

```
.background{ background-color: rgb(104,  
230, 76) }
```

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