

# Converting Colors

XYZ(36.0066, 51.9658, 28.2117)

Have a look what the booklet for  
XYZ(36.0066, 51.9658, 28.2117)  
contains.

<b>XYZ(35.9913, 51.9585, 28.2107)</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(35.9913, 51.9585,  
28.2107)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83D17F
RGB	131, 209, 127
RGB Percent	51%, 82%, 50%
CMY	0.4863, 0.1804, 0.5020
CMYK	0.37, 0.00, 0.39, 0.18
HSL	117°, 47%, 66%
HSV	117°, 39%, 82%
XYZ	35.9913, 51.9585, 28.2107
YIQ	176.3300, -20.1660, -42.0380

# Conversions

## Conversions Part 2

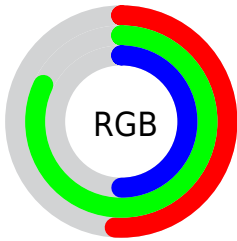
<b>Format</b>	<b>Color</b>
<b>RYB</b>	127, 209, 205
Decimal	8638847
CIELab	77.26, -40.23, 33.28
CIELCh	77, 52.215, 140.398
Yxy	51.9585, 0.3098, 0.4473
Android (android.graphics.Color)	4286828927 (0xFF83D17F)
YUV	176.3300, -24.3197, -39.7544
Hunter-Lab	72.0822, -37.0173, 27.2533

# Details

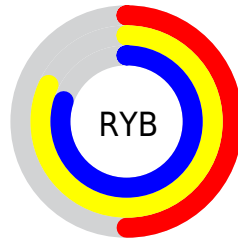
The XYZ color **35.9913, 51.9585, 28.2107** is a light color, and the websafe version is hex **66CC66**. A complement of this color would be **44.2771, 32.7629, 64.3145**, and the grayscale version is **41.5708, 43.7357, 47.6282**.

A 20% lighter version of the original color is **64.5940, 85.4210, 56.7995**, and **15.9557, 25.2248, 11.0491** is the 20% darker color. If you saturate the color by 10%, you get **31.9789, 50.0330, 21.6353**, and if you desaturate by 10%, it is **40.8797, 54.3060, 36.3041**.

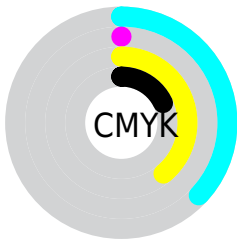
# Distribution



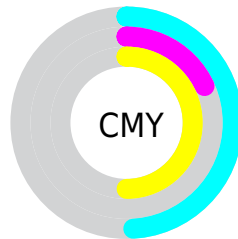
- Red (51%)
- Green (82%)
- Blue (50%)



- Red (50%)
- Yellow (82%)
- Blue (80%)



- Cyan (37%)
- Magenta (0%)
- Yellow (39%)
- Black (18%)




- Cyan (49%)
- Magenta (18%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.9913, 51.9585, 28.2107 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 35.9913, 51.9585, 28.2107 by changing the saturation by 10% instead.





 35.9913, 51.9585,  
28.2107


 35.9913, 51.9585,  
28.2107


320.3544,  
394.2764, 307.4159


 24.5976, 36.9720,  
18.2441


 68.3426, 93.0700,  
57.8478

 15.9046, 25.1858,  
10.9541


 90.0309, 119.9639,  
78.3554

 9.5471, 16.2155,  
5.9222


 115.8813,  
151.5956, 103.2138

 5.1597, 9.6768,  
2.7298

146.2594,  
188.3496, 132.8414

 2.3770, 5.1852,  
0.9584

181.5304,  
230.6103, 167.6569

 0.8336, 2.3563,  
0.0000

222.0596,

 0.0000, 0.8033,

278.7620, 208.0788

0.0000

268.2125,  
333.1893, 254.5256

■ 0.0000, 0.0000,  
0.0000

■ 35.9913, 51.9585,  
28.2107

■ 35.9913, 51.9585,  
28.2107

■ 31.9789, 50.0330,  
21.6353

■ 40.8797, 54.3060,  
36.3041

■ 28.7871, 48.4983,  
16.4802

■ 46.6875, 57.0915,  
45.9983

■ 26.3603, 47.3297,  
12.6417


■ 53.4600, 60.3381,  
57.3742


■ 24.6343, 46.4966,  
10.0006


■ 61.2381, 64.0652,  
70.5062


■ 23.5343, 45.9635,  
8.4160

■ 70.0606, 68.2915,  
85.4643

 22.9579, 45.6826,  
7.6536

 79.9642, 73.0342,  
102.3146

 22.9291, 45.6687,  
7.6065

 82.0915, 74.0830,  
104.5805

# Harmonies

## Analogous

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



42.9764, 51.9585, 19.0423



35.9913, 51.9585, 28.2107



32.7359, 51.9585, 47.8690

# Triad

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



35.9913, 51.9585, 28.2107



46.2438, 51.9585, 130.1775



69.7090, 51.9585, 39.4560

# Complementary

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



35.9913, 51.9585, 28.2107



44.2771, 32.7629, 64.3145

# 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.



70.8949, 51.9585, 66.2750



35.9913, 51.9585, 28.2107



56.4009, 51.9585, 125.5556

# Square

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



35.9913, 51.9585, 28.2107



38.1048, 51.9585, 110.5533



65.7469, 51.9585, 99.4840



62.6969, 51.9585, 23.8465

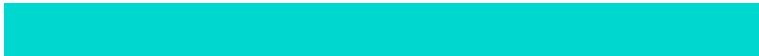


# Rectangle

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



35.9913, 51.9585, 28.2107



32.7712, 51.9585, 67.1159



65.7469, 51.9585, 99.4840



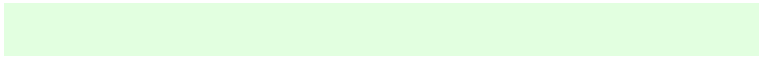
70.8358, 51.9585, 47.1981

# Sweetspot

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



35.9926, 51.9607, 28.2119



80.5991, 93.0749, 84.5230



51.9350, 58.7050, 28.6734



16.9449, 19.7749, 17.5760



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.



35.9926, 51.9607, 28.2119



51.1273, 78.9357, 35.5185



38.2463, 52.7920, 43.2502



11.7089, 13.2334, 12.5492



14.1608, 28.1691, 4.6908



0.8109, 1.5849, 0.2632



# Inverse Universe

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



44.2771, 32.7629, 64.3145



65.8574, 44.7582, 99.7759



41.3417, 31.7178, 43.0250



12.2515, 11.9785, 14.9100



21.6117, 10.3215, 38.0457



1.2263, 0.5863, 2.1281



# Previews

## White Background



This preview shows how the XYZ color 35.9913, 51.9585, 28.2107 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

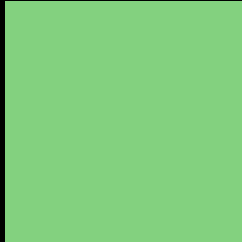
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.9913, 51.9585, 28.2107 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 35.9913, 51.9585, 28.2107**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.9913, 51.9585, 28.2107.



This preview shows how white text looks on a background with the XYZ color 35.9913, 51.9585,



# 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

35.9913, 51.9585, 28.2107

### Protanopia

47.4754, 51.4242, 24.8764

### Deuteranopia

52.3256, 51.3181, 29.3378



## Tritanopia

44.7738, 51.9978, 71.2951

# Trichromacy



## Original Color

35.9913, 51.9585, 28.2107



## Protanomaly

42.0695, 50.9214, 26.0239



## Deuteranomaly

44.4322, 50.4143, 28.8618



## Tritanomaly

40.9548, 51.8401, 52.1036

# Monochromacy



## Original Color

35.9913, 51.9585, 28.2107



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

38.6520, 45.9086, 39.1718

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.9913, 51.9585, 28.2107 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(131, 209, 127)` looks like.

```
.text, #text, p{  
    color:rgb(131, 209, 127)  
}
```

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(131, 209, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 209, 127) }
```

## Border

The CSS property to change the border of an element to XYZ 35.9913, 51.9585, 28.2107 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(131, 209, 127) }
```



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

```
.border{ border-color:rgb(131, 209, 127) }
```

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

Here you see how a box with a 4 pixel rgb(131, 209, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 209, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 209, 127);  
box-shadow:4px 4px 4px 4px rgb(131, 209,  
127) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.9913, 51.9585, 28.2107 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 209, 127) }
```

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

```
.background{ background-color: rgb(131,  
209, 127) }
```

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