

# Converting Colors

XYZ(37.5788, 59.3409, 28.1850)

Have a look what the booklet for  
XYZ(37.5788, 59.3409, 28.1850)  
contains.

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# Color

**XYZ(37.5816, 59.3335,  
28.2106)**

# Conversions

## Conversions Part 1

Format	Color
Hex	71E27B
RGB	113, 226, 123
RGB Percent	44%, 89%, 48%
CMY	0.5569, 0.1137, 0.5176
CMYK	0.50, 0.00, 0.46, 0.11
HSL	125°, 66%, 66%
HSV	125°, 50%, 89%
XYZ	37.5816, 59.3335, 28.2106
YIQ	180.4710, -34.2850, -55.9890

# Conversions

## Conversions Part 2

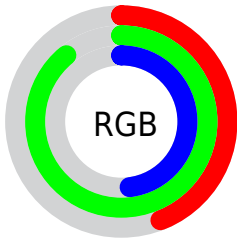
Format	Color
<a href="#">RYB</a>	<a href="#">113, 217, 226</a>
Decimal	<a href="#">7463547</a>
CIELab	<a href="#">81.47, -53.16, 40.56</a>
CIELCh	<a href="#">81, 66.868, 142.660</a>
Yxy	<a href="#">59.3335, 0.3004, 0.4742</a>
Android (android.graphics.Color)	<a href="#">4285653627 (0xFF71E27B)</a>
YUV	<a href="#">180.4710, -28.3332, -59.1721</a>
Hunter-Lab	<a href="#">77.0282, -47.7104, 32.2056</a>

# Details

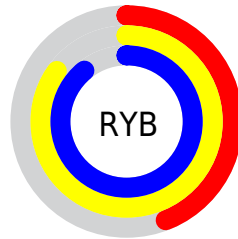
The XYZ color **37.5816, 59.3335, 28.2106** is a light color, and the websafe version is hex **66CC66**. A complement of this color would be **49.6657, 32.9380, 68.7078**, and the grayscale version is **43.7980, 46.0789, 50.1799**.

A 20% lighter version of the original color is **60.4904, 83.3523, 54.4954**, and **16.9097, 29.9211, 11.0150** is the 20% darker color. If you saturate the color by 10%, you get **33.8714, 57.5562, 21.9995**, and if you desaturate by 10%, it is **42.2901, 61.5975, 35.8873**.

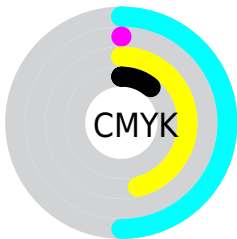
# Distribution



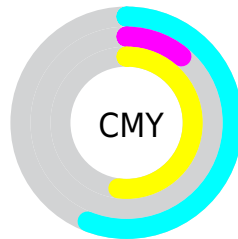
- Red (44%)
- Green (89%)
- Blue (48%)



- Red (44%)
- Yellow (85%)
- Blue (89%)



- Cyan (50%)
- Magenta (0%)
- Yellow (46%)
- Black (11%)




- Cyan (56%)
- Magenta (11%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.5816, 59.3335, 28.2106 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 37.5816, 59.3335, 28.2106 by changing the saturation by 10% instead.





 37.5816, 59.3335,  
28.2106


 37.5816, 59.3335,  
28.2106


327.1337,  
422.1367, 307.4154


 25.8339, 42.8816,  
18.2441


 70.7744, 103.8622,  
57.8476

 16.8314, 29.7923,  
10.9541


 92.9502, 132.7079,  
78.3552

 10.2089, 19.6810,  
5.9222


 119.3327,  
166.4536, 103.2135

 5.6010, 12.1633,  
2.7298

150.2873,  
205.4837, 132.8412

 2.6424, 6.8550,  
0.9584

186.1794,  
250.1827, 167.6566

 0.9676, 3.3716,  
0.0000

227.3742,

 0.0000, 1.3287,

300.9349, 208.0785

0.0000

274.2372,  
358.1248, 254.5252

■ 0.0000, 0.1632,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.5816, 59.3335,  
28.2106

■ 37.5816, 59.3335,  
28.2106

■ 33.8714, 57.5562,  
21.9995

■ 42.2901, 61.5975,  
35.8873

■ 31.0830, 56.2230,  
17.1571


■ 48.0571, 64.3724,  
45.1104


■ 29.1363, 55.2966,  
13.5811


■ 54.9435, 67.6894,  
55.9597

■ 27.9351, 54.7298,  
11.1532

■ 63.0043, 71.5755,  
68.5081

 27.3238, 54.4456,  
9.7309

 72.2906, 76.0556,  
82.8242

 82.8508, 81.1531,  
98.9729

 86.4875, 82.8750,  
106.0458

# Harmonies

## Analogous

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



46.6442, 59.3335, 16.3728



37.5816, 59.3335, 28.2106



33.6828, 59.3335, 55.2444

# Triad

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



37.5816, 59.3335, 28.2106



53.0241, 59.3335, 175.2388



85.0704, 59.3335, 39.2162

# Complementary

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



37.5816, 59.3335, 28.2106



49.6657, 32.9380, 68.7078

# 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.



87.5375, 59.3335, 74.9654



37.5816, 59.3335, 28.2106



67.4174, 59.3335, 165.0925

# Square

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



37.5816, 59.3335, 28.2106



41.5886, 59.3335, 147.3538



80.6255, 59.3335, 123.5736



74.3540, 59.3335, 20.6436



# Rectangle

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



37.5816, 59.3335, 28.2106



33.9915, 59.3335, 83.0215



80.6255, 59.3335, 123.5736



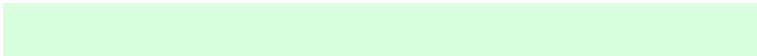
86.9570, 59.3335, 49.1343

# Sweetspot

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



37.5831, 59.3360, 28.2119



77.2372, 91.4079, 81.3768



58.6710, 70.2759, 26.0955



16.0589, 19.3370, 16.6807



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.



37.5831, 59.3360, 28.2119



44.3652, 75.5951, 28.6364



42.1363, 61.1573, 52.1890



13.5778, 15.3568, 14.8119



15.6059, 31.0672, 5.6477



1.0989, 2.1603, 0.4822



# Inverse Universe

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



49.6657, 32.9380, 68.7078



61.9372, 37.1411, 87.4834



43.6234, 30.5211, 36.8891



14.2400, 13.9136, 17.0338



24.2715, 11.7756, 34.4249

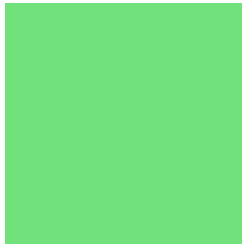


1.6979, 0.8224, 2.4681



# Previews

## White Background



This preview shows how the XYZ color 37.5816, 59.3335, 28.2106 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 37.5816, 59.3335, 28.2106 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 37.5816, 59.3335, 28.2106**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.5816, 59.3335, 28.2106.



This preview shows how white text looks on a background with the XYZ color 37.5816, 59.3335,



# 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

37.5816, 59.3335, 28.2106

### Protanopia

53.7427, 58.3603, 24.3517

### Deuteranopia

59.5643, 58.2152, 29.5700



## Tritanopia

48.7869, 59.1810, 84.4530

# Trichromacy



## Original Color

37.5816, 59.3335, 28.2106



## Protanomaly

45.5489, 57.3226, 25.4933



## Deuteranomaly

47.9948, 56.3463, 28.7684



## Tritanomaly

43.4879, 58.5378, 58.8760

# Monochromacy



## Original Color

37.5816, 59.3335, 28.2106



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

39.9346, 49.5036, 40.2513

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.5816, 59.3335, 28.2106 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(113, 226, 123)` looks like.

```
.text, #text, p{  
    color:rgb(113, 226, 123)  
}
```

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(113, 226, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 226, 123) }
```

## Border

The CSS property to change the border of an element to XYZ 37.5816, 59.3335, 28.2106 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(113, 226, 123) }
```



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

```
.border{ border-color:rgb(113, 226, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 226, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 226, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 226, 123);  
box-shadow:4px 4px 4px 4px rgb(113, 226,  
123) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.5816, 59.3335, 28.2106 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 226, 123) }
```

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

```
.background{ background-color: rgb(113,  
226, 123) }
```

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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