

# Converting Colors

XYZ(47.4111, 59.4543, 87.2716)

Have a look what the booklet for  
XYZ(47.4111, 59.4543, 87.2716)  
contains.

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# Color

**XYZ(47.5540, 59.6169,  
87.5981)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78D9EB
RGB	120, 217, 235
RGB Percent	47%, 85%, 92%
CMY	0.5294, 0.1490, 0.0784
CMYK	0.49, 0.08, 0.00, 0.08
HSL	189°, 74%, 70%
HSV	189°, 49%, 92%
XYZ	47.5540, 59.6169, 87.5981
YIQ	190.0490, -63.5900, -14.9660

# Conversions

## Conversions Part 2

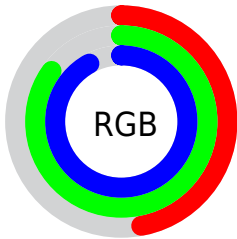
Format	Color
<a href="#">RYB</a>	<a href="#">120, 173, 235</a>
Decimal	<a href="#">7920107</a>
CIELab	<a href="#">81.63, -23.88, -17.69</a>
CIELCh	<a href="#">82, 29.717, 216.522</a>
Yxy	<a href="#">59.6169, 0.2442, 0.3061</a>
Android (android.graphics.Color)	<a href="#">4286110187</a> ( <a href="#">0xFF78D9EB</a> )
YUV	<a href="#">190.0490, 22.1608, -61.4330</a>
Hunter-Lab	<a href="#">77.2120, -25.1848, -13.2170</a>

# Details

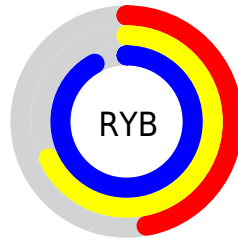
The XYZ color **47.5540, 59.6169, 87.5981** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **46.7409, 37.1966, 22.4872**, and the grayscale version is **48.8761, 51.4214, 55.9980**.

A 20% lighter version of the original color is **72.4004, 88.3237, 107.8400**, and **22.8019, 29.9949, 47.2356** is the 20% darker color. If you saturate the color by 10%, you get **43.7490, 56.2649, 87.1527**, and if you desaturate by 10%, it is **52.1835, 63.4280, 88.0908**.

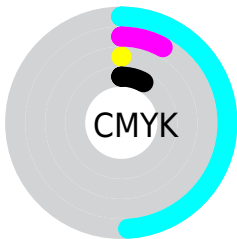
# Distribution



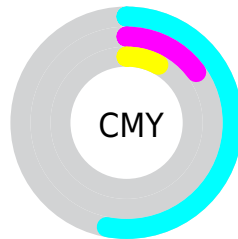
- Red (47%)
- Green (85%)
- Blue (92%)



- Red (47%)
- Yellow (68%)
- Blue (92%)



- Cyan (49%)
- Magenta (8%)
- Yellow (0%)
- Black (8%)



- Cyan (53%)
- Magenta (15%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5540, 59.6169, 87.5981 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 47.5540, 59.6169, 87.5981 by changing the saturation by 10% instead.



47.5540, 59.6169,  
87.5981

47.5540, 59.6169,  
87.5981

367.6336,  
423.1842, 540.5534

33.6836, 43.1099,  
65.4278

85.7537, 104.2737,  
145.9037

22.8124, 29.9714,  
47.3545

110.8137,  
133.1924, 182.8761

14.5750, 19.8169,  
32.9597

140.3343,  
167.0170, 225.6197

8.6060, 12.2620,  
21.8247

174.6809,  
206.1321, 274.5529

4.5401, 6.9224,  
13.5311

214.2187,  
250.9219, 330.0944

2.0120, 3.4136,  
7.6602

259.3132,

0.6407, 1.3513,

301.7710, 392.6626

3.7937

310.3298,  
359.0636, 462.6760

■ 0.0000, 0.1804,  
1.5129

■ 0.0000, 0.0000,  
0.2275

■ 47.5540, 59.6169,  
87.5981

■ 47.5540, 59.6169,  
87.5981

■ 43.7490, 56.2649,  
87.1527

■ 52.1835, 63.4280,  
88.0908

■ 40.7033, 53.3342,  
86.7476


■ 57.6856, 67.7191,  
88.6291


■ 38.3507, 50.7917,  
86.3808

■ 64.1111, 72.5181,  
89.2167


■ 36.6107, 48.5958,  
86.0487


■ 71.5055, 77.8485,  
89.8558


 35.3615, 46.6836,  
85.7454


 79.9111, 83.7323,  
90.5485

 35.2403, 46.4877,  
85.7140

 87.1230, 89.0331,  
91.1915

 88.2113, 91.2096,  
91.5543

 89.3215, 93.4301,  
91.9244

 90.4540, 95.6950,  
92.3019

# Harmonies

## Analogous

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



45.5545, 59.6169, 68.8963



47.5540, 59.6169, 87.5981



52.0147, 59.6169, 101.8282

# Triad

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



47.5540, 59.6169, 87.5981



68.4033, 59.6169, 79.5957



55.3115, 59.6169, 36.3962

# Complementary

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



47.5540, 59.6169, 87.5981



46.7409, 37.1966, 22.4872

# 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.



61.5825, 59.6169, 38.2096



47.5540, 59.6169, 87.5981



69.4473, 59.6169, 61.0856

# Square

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



47.5540, 59.6169, 87.5981



64.1127, 59.6169, 96.6468



66.8691, 59.6169, 46.5267



49.8159, 59.6169, 41.0183

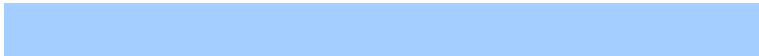


# Rectangle

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



47.5540, 59.6169, 87.5981



55.9389, 59.6169, 105.6318



66.8691, 59.6169, 46.5267



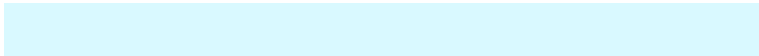
57.3955, 59.6169, 36.2881

# Sweetspot

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



47.5558, 59.6192, 87.5995



80.4709, 89.6931, 107.6790



41.9889, 65.2244, 34.1395



16.8326, 18.9137, 23.0135



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.



47.5558, 59.6192, 87.5995



52.5259, 67.6019, 104.8878



35.3570, 35.2215, 83.5332



15.3052, 16.6969, 19.3384



19.6901, 26.0272, 47.7289



1.6002, 2.1518, 3.7659



# Inverse Universe

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



53.5034, 36.1066, 69.7973



60.7338, 37.0669, 79.8908



57.1117, 57.9382, 25.9442



15.6076, 15.2709, 18.4850



24.7939, 12.1203, 31.0459

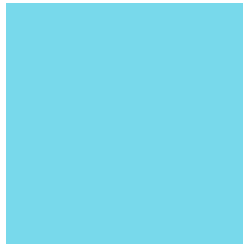


1.9742, 0.9626, 2.5815



# Previews

## White Background



This preview shows how the XYZ color 47.5540, 59.6169, 87.5981 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

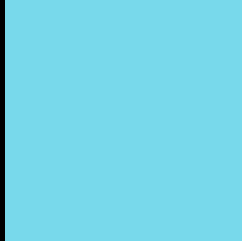
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.5540, 59.6169, 87.5981 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 47.5540, 59.6169, 87.5981

## Background



This preview shows how black text looks on a background with the XYZ color 47.5540, 59.6169, 87.5981.



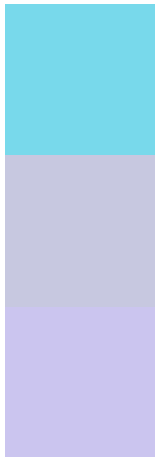
This preview shows how white text looks on a background with the XYZ color 47.5540, 59.6169,



# 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

47.5540, 59.6169, 87.5981

### Protanopia

57.6620, 58.8325, 78.8377

### Deuteranopia

60.1748, 58.8610, 89.8511



## Tritanopia

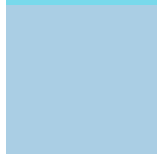
47.5540, 59.6169, 87.5981

# Trichromacy



## Original Color

47.5540, 59.6169, 87.5981



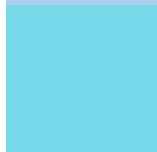
## Protanomaly

52.6525, 58.2901, 81.8748



## Deuteranomaly

54.2591, 58.2430, 89.2712



## Tritanomaly

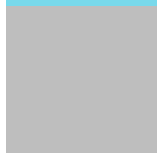
47.5540, 59.6169, 87.5981

# Monochromacy



## Original Color

47.5540, 59.6169, 87.5981



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

47.3119, 53.7641, 66.2764

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5540, 59.6169, 87.5981 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(120, 217, 235)` looks like.

```
.text, #text, p{  
    color:rgb(120, 217, 235)  
}
```

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(120, 217, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 217, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 47.5540, 59.6169, 87.5981 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(120, 217, 235) }
```



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

```
.border{ border-color:rgb(120, 217, 235) }
```

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

Here you see how a box with a 4 pixel rgb(120, 217, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 217, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 217, 235);  
box-shadow:4px 4px 4px 4px rgb(120, 217,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.5540, 59.6169, 87.5981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 217, 235) }
```

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

```
.background{ background-color: rgb(120,  
217, 235) }
```

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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