

# Converting Colors

XYZ(47.6880, 59.4259, 77.4687)

Have a look what the booklet for  
XYZ(47.6880, 59.4259, 77.4687)  
contains.

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# Color

**XYZ(47.7604, 59.5664,  
77.3868)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88D8DD
RGB	136, 216, 221
RGB Percent	53%, 85%, 87%
CMY	0.4666, 0.1529, 0.1333
CMYK	0.38, 0.02, 0.00, 0.13
HSL	184°, 56%, 70%
HSV	184°, 38%, 87%
XYZ	47.7604, 59.5664, 77.3868
YIQ	192.6500, -49.2850, -15.4050

# Conversions

## Conversions Part 2

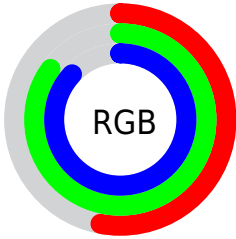
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 177, 221
Decimal	8968413
CIELab	81.60, -23.19, -10.20
CIElCh	82, 25.335, 203.752
Yxy	59.5664, 0.2586, 0.3225
Android (android.graphics.Color)	4287158493 (0xFF88D8DD)
YUV	192.6500, 13.9766, -49.6820
Hunter-Lab	77.1793, -24.6036, -5.4239

# Details

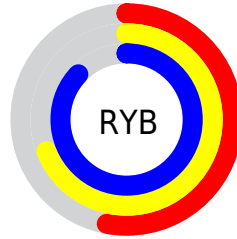
The XYZ color **47.7604, 59.5664, 77.3868** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **43.7886, 36.2004, 27.9736**, and the grayscale version is **50.4260, 53.0521, 57.7737**.

A 20% lighter version of the original color is **75.8023, 90.0775, 107.9992**, and **22.9361, 29.9484, 40.6482** is the 20% darker color. If you saturate the color by 10%, you get **44.2035, 57.2419, 77.1266**, and if you desaturate by 10%, it is **52.0635, 62.2824, 77.6853**.

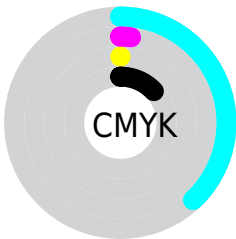
# Distribution



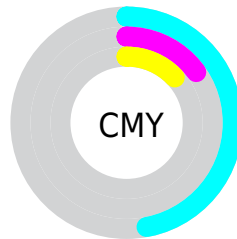
- Red (53%)
- Green (85%)
- Blue (87%)



- Red (53%)
- Yellow (69%)
- Blue (87%)



- Cyan (38%)
- Magenta (2%)
- Yellow (0%)
- Black (13%)



- Cyan (47%)
- Magenta (15%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7604, 59.5664, 77.3868 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 47.7604, 59.5664, 77.3868 by changing the saturation by 10% instead.



47.7604, 59.5664,  
77.3868

47.7604, 59.5664,  
77.3868

368.4400,  
422.9977, 505.5545

33.8476, 43.0692,  
57.0569

86.0594, 104.2004,  
131.4633

22.9389, 29.9394,  
40.6413

111.1764,  
133.1061, 166.0471

14.6689, 19.7926,  
27.7213

140.7588,  
166.9167, 206.2192

8.6721, 12.2444,  
17.8785

175.1720,  
206.0166, 252.3983

4.5833, 6.9103,  
10.6942

214.7814,  
250.7903, 305.0028

2.0371, 3.4061,  
5.7501

259.9523,

0.6547, 1.3472,

301.6221, 364.4513

2.6274

311.0501,  
358.8964, 431.1623

■ 0.0000, 0.1773,  
0.9065

■ 0.0000, 0.0000,  
0.0000

■ 47.7604, 59.5664,  
77.3868

■ 47.7604, 59.5664,  
77.3868

■ 44.2035, 57.2419,  
77.1266

■ 52.0635, 62.2824,  
77.6853

■ 41.3416, 55.2781,  
76.8984

■ 57.1493, 65.4043,  
78.0198

■ 39.1256, 53.6512,  
76.7012

■ 63.0585, 68.9546,  
78.3936

■ 37.4977, 52.3314,  
76.5322

■ 69.8271, 72.9520,  
78.8085

■ 36.3897, 51.2834,  
76.3884

■ 77.4893, 77.4139,  
79.2659

■ 35.7003, 50.4552,  
76.2648

■ 80.8934, 79.6846,  
79.5247

■ 35.6089, 50.3356,  
76.2466

■ 81.2436, 80.3850,  
79.6415

■ 81.5964, 81.0907,  
79.7591

■ 81.9520, 81.8018,  
79.8776

# Harmonies

## Analogous

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



47.0447, 59.5664, 61.7216



47.7604, 59.5664, 77.3868



50.7809, 59.5664, 91.4670

# Triad

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



47.7604, 59.5664, 77.3868



65.2723, 59.5664, 83.7664



57.7366, 59.5664, 39.8783

# Complementary

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



47.7604, 59.5664, 77.3868



43.7886, 36.2004, 27.9736

# 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.



62.8820, 59.5664, 43.9853



47.7604, 59.5664, 77.3868



67.4048, 59.5664, 68.0982

# Square

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



47.7604, 59.5664, 77.3868



60.8367, 59.5664, 95.5351



66.5039, 59.5664, 53.7596



52.5953, 59.5664, 41.5701



# Rectangle

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



47.7604, 59.5664, 77.3868



53.8021, 59.5664, 97.2428



66.5039, 59.5664, 53.7596



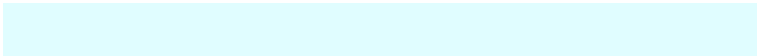
59.5265, 59.5664, 40.6028

# Sweetspot

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



47.7622, 59.5687, 77.3882



84.1033, 93.5087, 108.2240



40.7633, 58.8492, 34.1199



17.7690, 19.8751, 23.1497



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.



47.7622, 59.5687, 77.3882



62.0807, 79.7958, 106.7379



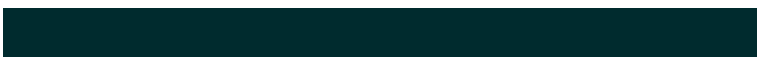
38.3904, 40.8251, 74.2642



13.3759, 14.6915, 16.7829



20.7151, 29.2996, 44.3020



1.3624, 1.9389, 2.8769



# Inverse Universe

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



51.0191, 37.9400, 69.6024



67.2447, 46.1347, 94.2513



51.1460, 50.9151, 30.4261



13.5796, 13.2609, 16.3134



23.9514, 11.5816, 35.7194

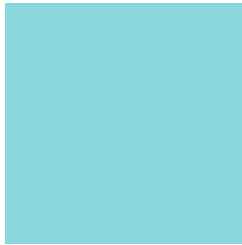


1.5620, 0.7544, 2.3682



# Previews

## White Background



This preview shows how the XYZ color 47.7604, 59.5664, 77.3868 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

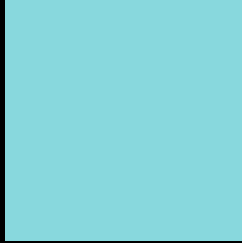
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7604, 59.5664, 77.3868 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 47.7604, 59.5664, 77.3868**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7604, 59.5664, 77.3868.



This preview shows how white text looks on a background with the XYZ color 47.7604, 59.5664,



# 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

47.7604, 59.5664, 77.3868

### Protanopia

57.3989, 59.2233, 70.6933

### Deuteranopia

60.1945, 58.7650, 79.4043



## Tritanopia

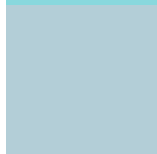
49.2595, 59.4083, 85.2146

# Trichromacy



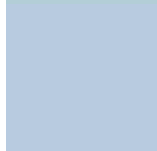
## Original Color

47.7604, 59.5664, 77.3868



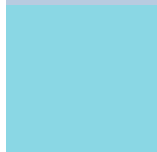
## Protanomaly

52.9275, 58.6326, 72.8176



## Deuteranomaly

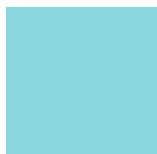
54.5776, 58.2840, 78.8944



## Tritanomaly

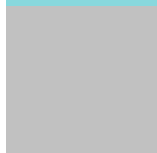
48.7853, 59.6056, 82.3326

# Monochromacy



## Original Color

47.7604, 59.5664, 77.3868



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

48.6794, 54.8557, 64.5225

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7604, 59.5664, 77.3868 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(136, 216, 221)` looks like.

```
.text, #text, p{  
    color:rgb(136, 216, 221)  
}
```

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(136, 216, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 216, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7604, 59.5664, 77.3868 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(136, 216, 221) }
```



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

```
.border{ border-color:rgb(136, 216, 221) }
```

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

Here you see how a box with a 4 pixel rgb(136, 216, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 216, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 216, 221);  
box-shadow:4px 4px 4px 4px rgb(136, 216,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7604, 59.5664, 77.3868 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 216, 221) }
```

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

```
.background{ background-color: rgb(136,  
216, 221) }
```

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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