

# Converting Colors

XYZ(47.7023, 73.1086, 76.2590)

Have a look what the booklet for  
XYZ(47.7023, 73.1086, 76.2590)  
contains.

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# Color

**XYZ(47.7070, 72.9922,  
76.5402)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3AF8D8
RGB	58, 248, 216
RGB Percent	23%, 97%, 85%
CMY	0.7725, 0.0274, 0.1529
CMYK	0.77, 0.00, 0.13, 0.03
HSL	170°, 93%, 60%
HSV	170°, 77%, 97%
XYZ	47.7070, 72.9922, 76.5402
YIQ	187.5420, -102.9680, -50.2320

# Conversions

## Conversions Part 2

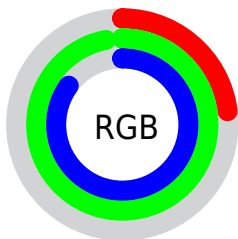
Format	Color
<b>RYB</b>	58, 162, 248
Decimal	3864792
CIELab	88.44, -52.83, 2.25
CIELCh	88, 52.877, 177.566
Yxy	72.9922, 0.2419, 0.3701
Android (android.graphics.Color)	4282054872 (0xFF3AF8D8)
YUV	187.5420, 14.0298, -113.6083
Hunter-Lab	85.4355, -49.8380, 6.6879

# Details

The XYZ color **47.7070, 72.9922, 76.5402** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light washed cyan. A complement of this color would be **42.0724, 23.7228, 12.0374**, and the grayscale version is **47.5079, 49.9821, 54.4305**.

A 20% lighter version of the original color is **63.6415, 83.8083, 107.4301**, and **25.0638, 39.8348, 40.0861** is the 20% darker color. If you saturate the color by 10%, you get **46.0641, 72.2086, 73.6812**, and if you desaturate by 10%, it is **50.0613, 74.1444, 79.5074**.

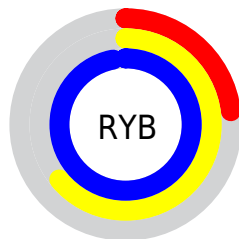
# Distribution



Red (23%)

Green (97%)

Blue (85%)



Red (23%)

Yellow (64%)

Blue (97%)

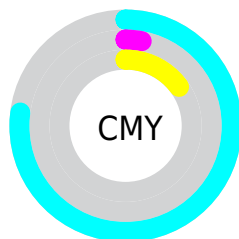


Cyan (77%)

Magenta (0%)

Yellow (13%)

Black (3%)



Cyan (77%)

Magenta (3%)


Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7070, 72.9922, 76.5402 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 47.7070, 72.9922, 76.5402 by changing the saturation by 10% instead.





 47.7070, 72.9922,  
76.5402


 47.7070, 72.9922,  
76.5402


368.2315,  
470.9878, 502.5909


 33.8052, 53.9696,  
56.3663


 85.9803, 123.4661,  
130.2573

 22.9062, 38.5773,  
40.0907


 111.0826,  
155.6862, 164.6375

 14.6446, 26.4311,  
27.2949


 140.6490,  
193.0743, 204.5903

 8.6550, 17.1464,  
17.5605


 175.0450,  
236.0147, 250.5341

 4.5721, 10.3389,  
10.4687

214.6359,  
284.8919, 302.8876

 2.0306, 5.6243,  
5.6012

259.7870,

 0.6511, 2.6180,

340.0902, 362.0691

2.5393

310.8638,  
401.9940, 428.4974

■ 0.0000, 0.9357,  
0.8609

■ 0.0000, 0.0000,  
0.0000

■ 47.7070, 72.9922,  
76.5402

■ 47.7070, 72.9922,  
76.5402

■ 46.0641, 72.2086,  
73.6812

■ 50.0613, 74.1444,  
79.5074


■ 45.0157, 71.7282,  
70.9195

■ 53.2088, 75.7022,  
82.5824


■ 44.7372, 71.6046,  
70.0026


■ 57.2268, 77.7072,  
85.7708


■ 62.1815, 80.1934,  
89.0762

 68.1329, 83.1918,  
92.5020

 75.1357, 86.7306,  
96.0513

 83.2407, 90.8359,  
99.7268

 91.9731, 95.2630,  
103.5069

 92.6336, 95.5272,  
106.9849

# Harmonies

## Analogous

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



50.7220, 72.9922, 47.5303



47.7070, 72.9922, 76.5402



49.8842, 72.9922, 116.4778

# Triad

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



47.7070, 72.9922, 76.5402



81.3160, 72.9922, 159.0964



83.3310, 72.9922, 33.8204

# Complementary

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



47.7070, 72.9922, 76.5402



42.0724, 23.7228, 12.0374

# 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.



93.3823, 72.9922, 51.2798



47.7070, 72.9922, 76.5402



92.1226, 72.9922, 123.2485

# Square

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



47.7070, 72.9922, 76.5402



68.3440, 72.9922, 171.9519



96.7790, 72.9922, 82.4861



70.4201, 72.9922, 28.0420



# Rectangle

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



47.7070, 72.9922, 76.5402



54.1550, 72.9922, 143.1562



96.7790, 72.9922, 82.4861



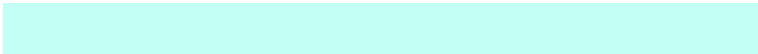
87.2132, 72.9922, 38.1931

# Sweetspot

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



47.7091, 72.9950, 76.5419



75.1160, 89.9027, 99.8771



38.8310, 69.7618, 15.4233



15.5289, 18.9657, 21.0883



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.



47.7091, 72.9950, 76.5419



48.3848, 76.6042, 76.8528



36.6384, 43.5754, 95.2899



17.6329, 19.5554, 21.5334



24.2117, 38.6977, 38.0539



2.2746, 3.5969, 3.6938



# Inverse Universe

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



42.0724, 23.7228, 12.0374



42.3107, 22.0999, 6.2990



45.9759, 33.2610, 8.0013



17.3639, 17.2729, 18.5059



21.1697, 10.8836, 2.3362

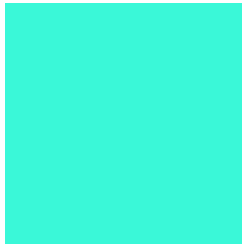


1.9933, 1.0210, 0.3880



# Previews

## White Background



This preview shows how the XYZ color 47.7070, 72.9922, 76.5402 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

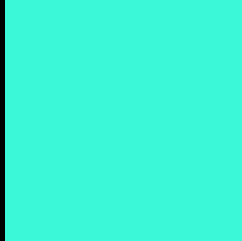
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7070, 72.9922, 76.5402 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

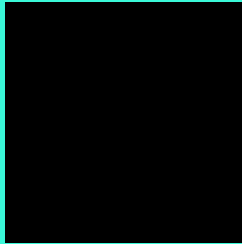
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.7070, 72.9922, 76.5402**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7070, 72.9922, 76.5402.



This preview shows how white text looks on a background with the XYZ color 47.7070, 72.9922,



# 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

47.7070, 72.9922, 76.5402

### Protanopia

67.7518, 71.3271, 64.8402

### Deuteranopia

72.8454, 71.3210, 80.4480



## Tritanopia

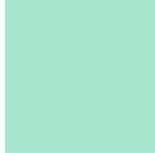
56.5097, 72.4340, 105.6105

# Trichromacy



## Original Color

47.7070, 72.9922, 76.5402



## Protanomaly

55.1633, 69.1569, 68.8337



## Deuteranomaly

57.4811, 68.4974, 78.5984



## Tritanomaly

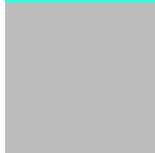
52.6663, 72.4518, 94.4279

# Monochromacy



## Original Color

47.7070, 72.9922, 76.5402



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

44.2241, 55.8331, 61.8721

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7070, 72.9922, 76.5402 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(58, 248, 216)` looks like.

```
.text, #text, p{  
    color:rgb(58, 248, 216)  
}
```

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(58, 248, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 248, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7070, 72.9922, 76.5402 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(58, 248, 216) }
```



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

```
.border{ border-color:rgb(58, 248, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 248, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 248, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 248, 216);  
box-shadow:4px 4px 4px 4px rgb(58, 248,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7070, 72.9922, 76.5402 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 248, 216) }
```

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

```
.background{ background-color: rgb(58, 248,  
216) }
```

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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