

Converting Colors

XYZ(47.8096, 76.4976, 68.2470)

Have a look what the booklet for
XYZ(47.8096, 76.4976, 68.2470)
contains.

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Color

**XYZ(47.7859, 76.4881,
68.1222)**

Conversions

Conversions Part 1

Format	Color
Hex	33FFCA
RGB	51, 255, 202
RGB Percent	20%, 100%, 79%
CMY	0.8000, 0.0000, 0.2078
CMYK	0.80, 0.00, 0.21, 0.00
HSL	164°, 100%, 60%
HSV	164°, 80%, 100%
XYZ	47.7859, 76.4881, 68.1222
YIQ	187.9620, -104.5710, -59.7310

Conversions

Conversions Part 2

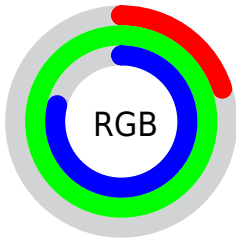
Format	Color
RYB	51, 168, 255
Decimal	3407818
CIELab	90.09, -59.69, 11.85
CIELCh	90, 60.851, 168.771
Yxy	76.4881, 0.2484, 0.3976
Android (android.graphics.Color)	4281597898 (0xFF33FFCA)
YUV	187.9620, 6.9207, -120.1157
Hunter-Lab	87.4575, -55.5199, 15.0382

Details

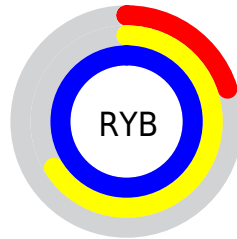
The XYZ color **47.7859, 76.4881, 68.1222** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **44.9234, 24.6282, 15.4849**, and the grayscale version is **47.7842, 50.2727, 54.7470**.

A 20% lighter version of the original color is **63.1701, 83.5653, 107.4080**, and **25.3115, 42.0706, 34.8034** is the 20% darker color. If you saturate the color by 10%, you get **46.0666, 75.6904, 64.0353**, and if you desaturate by 10%, it is **50.2437, 77.6625, 72.4221**.

Distribution



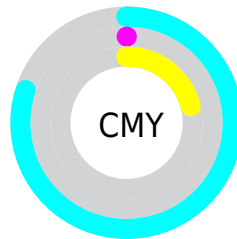
- Red (20%)
- Green (100%)
- Blue (79%)



- Red (20%)
- Yellow (66%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (21%)
- Black (0%)





- Cyan (80%)
- Magenta (0%)
- Yellow (21%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 47.7859, 76.4881, 68.1222 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 47.7859, 76.4881, 68.1222 by changing the saturation by 10% instead.


 47.7859, 76.4881,
68.1222


 47.7859, 76.4881,
68.1222


368.5396,
483.0169, 472.5387


 33.8679, 56.8328,
49.5298


 86.0972, 128.4166,
118.1828


 22.9546, 40.8710,
34.6714


 111.2212,
161.4587, 150.4881

 14.6805, 28.2183,
23.1283


 140.8112,
199.7318, 188.2016

 8.6803, 18.4903,
14.4821

 175.2327,
243.6203, 231.7416

 4.5887, 11.3026,
8.3142

214.8509,
293.5087, 281.5268

 2.0403, 6.2707,
4.2060

260.0312,

 0.6564, 3.0104,

349.7814, 337.9757

1.7390

311.1390,
412.8226, 401.5068

0.0000, 1.1372,
0.3873

0.0000, 0.0095,
0.0000

47.7859, 76.4881,
68.1222

47.7859, 76.4881,
68.1222

46.0666, 75.6904,
64.0353

50.2437, 77.6625,
72.4221

44.9185, 75.1834,
60.1475

53.5389, 79.2647,
76.9379

44.9181, 75.1832,
60.1459

57.7570, 81.3387,
81.6769

62.9723, 83.9227,
86.6447

■ 69.2513, 87.0510,
91.8465

■ 76.6546, 90.7548,
97.2870

■ 85.2382, 95.0629,
102.9709

■ 95.0500, 100.0000,
108.9000

Harmonies

Analogous

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



52.9833, 76.4881, 39.6338



47.7859, 76.4881, 68.1222



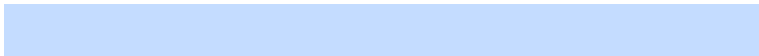
48.5368, 76.4881, 112.9954

Triad

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



47.7859, 76.4881, 68.1222



82.4446, 76.4881, 189.3756



93.5549, 76.4881, 35.1056

Complementary

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



47.7859, 76.4881, 68.1222



44.9234, 24.6282, 15.4849

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.



103.7873, 76.4881, 59.2965



47.7859, 76.4881, 68.1222



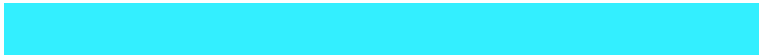
96.7852, 76.4881, 150.9552

Square

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



47.7859, 76.4881, 68.1222



67.1930, 76.4881, 194.3112



105.0451, 76.4881, 100.5401



78.4992, 76.4881, 25.4634

Rectangle

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



47.7859, 76.4881, 68.1222



52.3378, 76.4881, 146.9307



105.0451, 76.4881, 100.5401



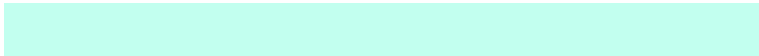
97.7569, 76.4881, 41.3222

Sweetspot

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



47.7867, 76.4884, 68.1236



73.5516, 89.2008, 95.0796



42.2315, 74.7871, 15.3427



15.1855, 18.8138, 19.9375



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.



47.7867, 76.4884, 68.1236



45.3357, 75.3650, 61.6784



41.8262, 52.7450, 102.5841



18.3415, 20.3961, 22.1011



23.5350, 39.3106, 31.7664



2.3362, 3.8454, 3.3283

Inverse Universe

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



44.9234, 24.6282, 15.4849



42.5800, 21.9732, 8.4404



46.2626, 30.3487, 6.5527



18.2031, 18.0645, 19.6864



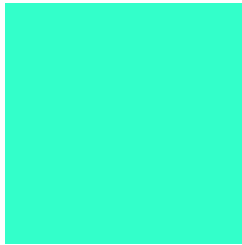
22.1178, 11.3364, 4.0049



2.1959, 1.1207, 0.6131

Previews

White Background



This preview shows how the XYZ color 47.7859, 76.4881, 68.1222 looks on a white background.

Color Contrast Check

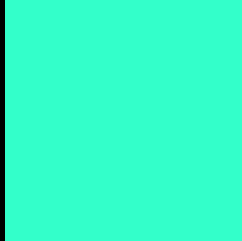
Large Text (above 18pt) WCAG AA × Fail

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 47.7859, 76.4881, 68.1222 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 47.7859, 76.4881, 68.1222

Background



This preview shows how black text looks on a background with the XYZ color 47.7859, 76.4881, 68.1222.

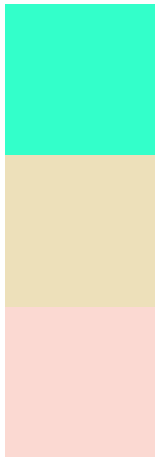


This preview shows how white text looks on a background with the XYZ color 47.7859, 76.4881,

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

47.7859, 76.4881, 68.1222

Protanopia

70.4436, 74.8610, 57.1912

Deuteranopia

76.2294, 74.7881, 71.3906



Tritanopia

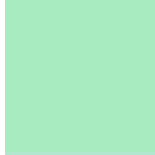
61.0641, 75.6512, 105.9915

Trichromacy



Original Color

47.7859, 76.4881, 68.1222



Protanomaly

55.5849, 71.6574, 60.7708



Deuteranomaly

58.1985, 71.1218, 69.6920



Tritanomaly

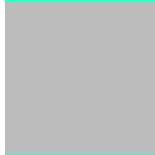
54.3483, 74.7405, 90.9188

Monochromacy



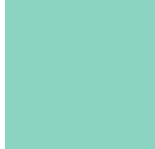
Original Color

47.7859, 76.4881, 68.1222



Achromatopsia

47.7994, 50.2886, 54.7643



Achromatomaly

43.6504, 56.3405, 59.0263

CSS Examples

Text

The CSS property to change the color of the text to XYZ 47.7859, 76.4881, 68.1222 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(51, 255, 202)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 202)  
}
```

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(51, 255, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 202) }
```

Border

The CSS property to change the border of an element to XYZ 47.7859, 76.4881, 68.1222 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(51, 255, 202) }
```


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

```
.border{ border-color:rgb(51, 255, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 202);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
202) }
```

Background

The CSS property to change the background color of an element to XYZ 47.7859, 76.4881, 68.1222 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 202) }
```

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

```
.background{ background-color: rgb(51, 255,  
202) }
```

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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