

Converting Colors

XYZ(49.8589, 67.0617,
104.9239)

Have a look what the booklet for
XYZ(49.8589, 67.0617, 104.9239)
contains.

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Color

**XYZ(49.7147, 66.7999,
104.8812)**

Conversions

Conversions Part 1

Format	Color
Hex	46E9FF
RGB	70, 233, 255
RGB Percent	27%, 91%, 100%
CMY	0.7254, 0.0863, 0.0000
CMYK	0.73, 0.09, 0.00, 0.00
HSL	187°, 100%, 64%
HSV	187°, 73%, 100%
XYZ	49.7147, 66.7999, 104.8812
YIQ	186.7710, -104.2100, -27.7140

Conversions

Conversions Part 2

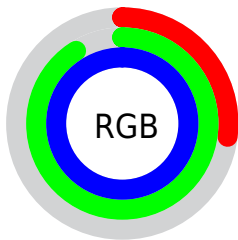
Format	Color
RYB	70, 157, 255
Decimal	4647423
CIELab	85.40, -34.22, -22.69
CIELCh	85, 41.060, 213.541
Yxy	66.7999, 0.2246, 0.3017
Android (android.graphics.Color)	4282837503 (0xFF46E9FF)
YUV	186.7710, 33.6369, -102.4082
Hunter-Lab	81.7312, -34.4533, -18.8718

Details

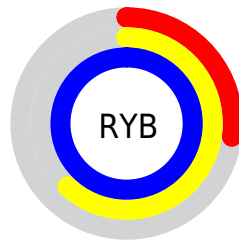
The XYZ color **49.7147, 66.7999, 104.8812** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **46.1739, 29.3583, 9.0296**, and the grayscale version is **46.9665, 49.4125, 53.8102**.

A 20% lighter version of the original color is **65.1377, 84.5796, 107.5001**, and **25.9152, 35.5215, 58.9165** is the 20% darker color. If you saturate the color by 10%, you get **47.3996, 64.3444, 104.5292**, and if you desaturate by 10%, it is **52.8285, 69.6918, 105.2753**.

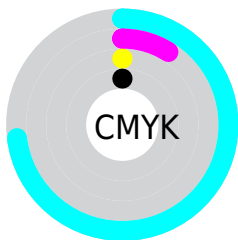
Distribution



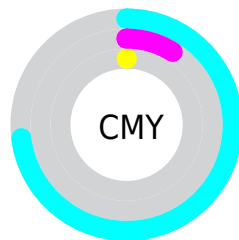
- Red (27%)
- Green (91%)
- Blue (100%)



- Red (27%)
- Yellow (62%)
- Blue (100%)



- Cyan (73%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)



- Cyan (73%)
- Magenta (9%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7147, 66.7999, 104.8812 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 49.7147, 66.7999, 104.8812 by changing the saturation by 10% instead.

49.7147, 66.7999,
104.8812

49.7147, 66.7999,
104.8812

376.0197,
449.2322, 597.1113

35.4036, 48.9220,
79.7437

88.9464, 114.6336,
169.9592

24.1419, 34.5576,
58.9826

114.5977,
145.3583, 210.7368

15.5642, 23.3223,
42.1792

144.7598,
181.1340, 257.5649

9.3052, 14.8317,
28.9150

179.7980,
222.3452, 310.8620

4.9995, 8.7013,
18.7715

220.0778,
269.3762, 371.0467

2.2817, 4.5469,
11.3301

265.9644,

0.7853, 1.9840,

322.6114, 438.5374

6.1724

317.8233,
382.4353, 513.7527

■ 0.0000, 0.5981,
2.8797

■ 0.0000, 0.0000,
1.0335

■ 49.7147, 66.7999,
104.8812

■ 49.7147, 66.7999,
104.8812

■ 47.3996, 64.3444,
104.5292

■ 52.8285, 69.6918,
105.2753

■ 45.7712, 62.2633,
104.2134

■ 56.8233, 73.0585,
105.7145

■ 44.8883, 60.8965,
103.9961

■ 61.7773, 76.9418,
106.2030

■ 67.7585, 81.3769,
106.7438

■ 74.8285, 86.3955,
107.3399

■ 83.0440, 92.0272,
107.9939

■ 92.4580, 98.2992,
108.7083

■ 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.



47.2544, 66.7999, 75.9448



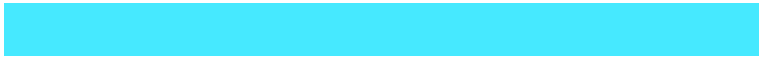
49.7147, 66.7999, 104.8812



55.8478, 66.7999, 128.9325

Triad

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



49.7147, 66.7999, 104.8812



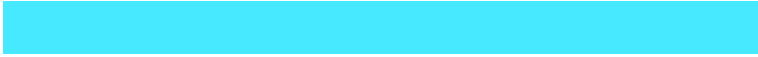
80.8952, 66.7999, 98.0389



62.3926, 66.7999, 32.6390

Complementary

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



49.7147, 66.7999, 104.8812



46.1739, 29.3583, 9.0296

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.



71.8022, 66.7999, 35.8264



49.7147, 66.7999, 104.8812



83.0772, 66.7999, 69.6145

Square

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



49.7147, 66.7999, 104.8812



73.8999, 66.7999, 124.3522



79.6034, 66.7999, 47.9346



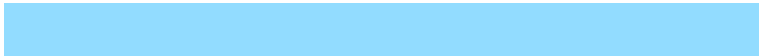
54.1090, 66.7999, 37.8368

Rectangle

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



49.7147, 66.7999, 104.8812



61.4996, 66.7999, 136.4602



79.6034, 66.7999, 47.9346



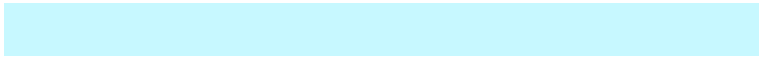
65.5255, 66.7999, 32.7725

Sweetspot

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



49.7166, 66.8023, 104.8815



75.2454, 86.6858, 107.3739



40.2008, 73.5882, 22.1177



15.6679, 18.2484, 22.9465



0.0000, 0.0000, 0.0000



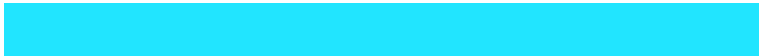
20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.7166, 66.8023, 104.8815



46.5963, 63.3743, 104.3843



30.0905, 27.5501, 98.3395



18.3596, 20.0909, 23.1602



23.5282, 31.9660, 54.3646



2.3407, 3.2121, 5.3099

Inverse Universe

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



58.1394, 31.5253, 80.1140



55.8779, 27.9920, 76.3087



59.5047, 56.0200, 13.4732



18.6942, 18.2610, 22.2727



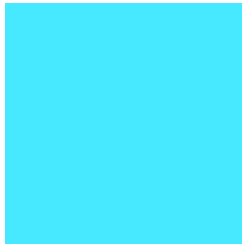
28.6642, 13.9550, 38.4775



2.8161, 1.3688, 3.8789

Previews

White Background



This preview shows how the XYZ color 49.7147, 66.7999, 104.8812 looks on a white background.

Color Contrast Check

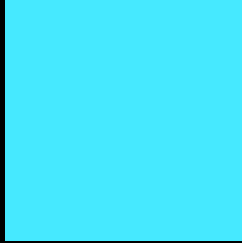
Large Text (above 18pt) WCAG AA × Fail

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 49.7147, 66.7999, 104.8812 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 49.7147, 66.7999, 104.8812

Background



This preview shows how black text looks on a background with the XYZ color 49.7147, 66.7999, 104.8812.

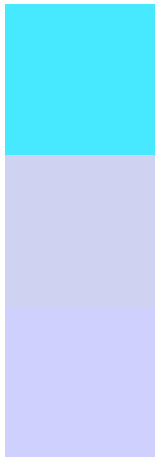


This preview shows how white text looks on a background with the XYZ color 49.7147, 66.7999,

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

49.7147, 66.7999, 104.8812

Protanopia

64.5069, 65.6499, 91.7099

Deuteranopia

66.6183, 65.7416, 103.7860



Tritanopia

49.0935, 66.5350, 102.3505

Trichromacy



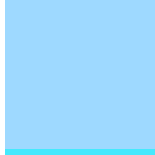
Original Color

49.7147, 66.7999, 104.8812



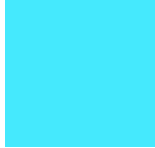
Protanomaly

55.4575, 63.9035, 95.7979



Deuteranomaly

56.9634, 64.1148, 103.9808



Tritanomaly

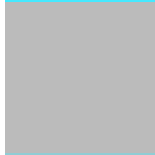
49.3228, 66.6349, 103.1907

Monochromacy



Original Color

49.7147, 66.7999, 104.8812



Achromatopsia

47.2335, 49.6933, 54.1160



Achromatomaly

44.9781, 53.8685, 70.3144

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.7147, 66.7999, 104.8812 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(70, 233, 255)` looks like.

```
.text, #text, p{  
    color:rgb(70, 233, 255)  
}
```

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(70, 233, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 233, 255) }
```

Border

The CSS property to change the border of an element to XYZ 49.7147, 66.7999, 104.8812 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(70, 233, 255) }
```


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

```
.border{ border-color:rgb(70, 233, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 233, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 233, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 233, 255);  
box-shadow:4px 4px 4px 4px rgb(70, 233,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 49.7147, 66.7999, 104.8812 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 233, 255) }
```

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

```
.background{ background-color: rgb(70, 233,  
255) }
```

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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