

# Converting Colors

XYZ(49.8813, 75.4854, 90.6543)

Have a look what the booklet for  
XYZ(49.8813, 75.4854, 90.6543)  
contains.

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# Color

**XYZ(49.9718, 75.7045,  
90.5759)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0DFCEB
RGB	13, 252, 235
RGB Percent	5%, 99%, 92%
CMY	0.9488, 0.0118, 0.0784
CMYK	0.95, 0.00, 0.07, 0.01
HSL	176°, 98%, 52%
HSV	176°, 95%, 99%
XYZ	49.9718, 75.7045, 90.5759
YIQ	178.6010, -136.9870, -55.9550

# Conversions

## Conversions Part 2

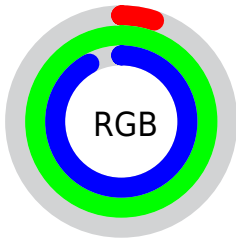
<b>Format</b>	<b>Color</b>
<b>RYB</b>	13, 137, 252
Decimal	916715
CIELab	89.72, -52.15, -5.82
CIELCh	90, 52.470, 186.365
Yxy	75.7045, 0.2311, 0.3501
Android (android.graphics.Color)	4279106795 (0xFF0DFCEB)
YUV	178.6010, 27.8047, -145.2321
Hunter-Lab	87.0083, -49.7461, -0.8152

# Details

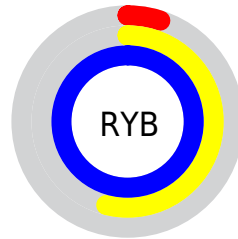
The XYZ color **49.9718, 75.7045, 90.5759** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **40.5260, 21.0795, 3.1650**, and the grayscale version is **42.5545, 44.7706, 48.7552**.

A 20% lighter version of the original color is **61.5557, 82.7331, 107.3325**, and **27.4285, 41.8382, 49.2778** is the 20% darker color. If you saturate the color by 10%, you get **49.6733, 75.5678, 89.8647**, and if you desaturate by 10%, it is **50.8765, 76.1425, 91.9792**.

# Distribution



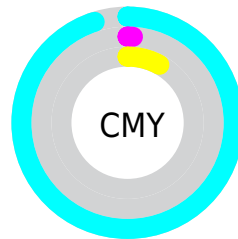
- Red (5%)
- Green (99%)
- Blue (92%)



- Red (5%)
- Yellow (54%)
- Blue (99%)



- Cyan (95%)
- Magenta (0%)
- Yellow (7%)
- Black (1%)




- Cyan (95%)
- Magenta (1%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9718, 75.7045, 90.5759 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 49.9718, 75.7045, 90.5759 by changing the saturation by 10% instead.





 49.9718, 75.7045,  
90.5759


 49.9718, 75.7045,  
90.5759


377.0095,  
480.3355, 550.5208


 35.6087, 56.1902,  
67.8820


 89.3252, 127.3091,  
150.0806

 24.3008, 40.3555,  
49.3356


 115.0461,  
160.1683, 187.7284

 15.6829, 27.8158,  
34.5183


 145.2838,  
198.2445, 231.1980

 9.3895, 18.1869,  
23.0115

 180.4034,  
241.9222, 280.9079

 5.0552, 11.0842,  
14.3966

220.7705,  
291.5857, 337.2766

 2.3148, 6.1235,  
8.2551

266.7503,

 0.8022, 2.9203,

347.6195, 400.7226

4.1685

318.7081,  
410.4080, 471.6645

■ 0.0000, 1.0903,  
1.7182

■ 0.0000, 0.0000,  
0.3732

■ 49.9718, 75.7045,  
90.5759

■ 49.9718, 75.7045,  
90.5759

■ 49.6733, 75.5678,  
89.8647

■ 50.8765, 76.1425,  
91.9792

■ 52.4100, 76.9027,  
93.4240

■ 54.6835, 78.0440,  
94.9171

■ 57.7858, 79.6123,  
96.4627

61.7930, 81.6468,  
98.0645

66.7727, 84.1823,  
99.7256

72.7861, 87.2504,  
101.4489

79.8891, 90.8799,  
103.2371

88.1339, 95.0978,  
105.0928

# Harmonies

## Analogous

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



51.5020, 75.7045, 57.0584



49.9718, 75.7045, 90.5759



53.7386, 75.7045, 132.2500

# Triad

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



49.9718, 75.7045, 90.5759



87.7214, 75.7045, 154.0632



82.3864, 75.7045, 32.9023

# Complementary

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



49.9718, 75.7045, 90.5759



40.5260, 21.0795, 3.1650

# 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.



93.8826, 75.7045, 47.0164



49.9718, 75.7045, 90.5759



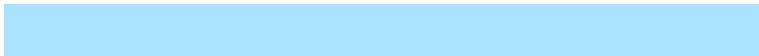
97.2116, 75.7045, 114.3869

# Square

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



49.9718, 75.7045, 90.5759



74.7458, 75.7045, 175.3425



99.5913, 75.7045, 74.7865



69.2342, 75.7045, 29.9935



# Rectangle

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



49.9718, 75.7045, 90.5759



59.0471, 75.7045, 157.0345



99.5913, 75.7045, 74.7865



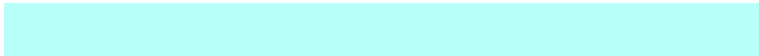
86.6187, 75.7045, 36.2323

# Sweetspot

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



49.9740, 75.7074, 90.5777



72.6742, 88.5581, 103.6395



35.5108, 69.9751, 12.0176



14.9881, 18.6657, 22.0197



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.



49.9740, 75.7074, 90.5777



51.0250, 77.6260, 92.3045



29.0383, 29.7149, 96.3036



17.7094, 19.5860, 21.9361



25.8979, 39.3722, 46.9330



2.4141, 3.6527, 4.4285



# Inverse Universe

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



40.5260, 21.0795, 3.1650



41.3504, 21.3041, 2.5112



46.0818, 32.4506, 4.2175



17.2947, 17.2452, 18.1417



20.9873, 10.8107, 1.3759

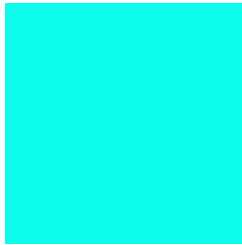


1.9607, 1.0080, 0.2163



# Previews

## White Background



This preview shows how the XYZ color 49.9718, 75.7045, 90.5759 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

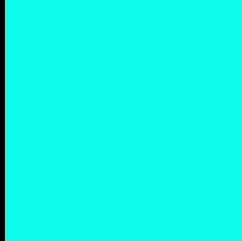
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.9718, 75.7045, 90.5759 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

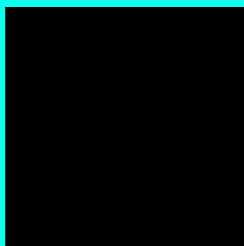
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.9718, 75.7045, 90.5759**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9718, 75.7045, 90.5759.



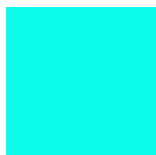
This preview shows how white text looks on a background with the XYZ color 49.9718, 75.7045,



# Color Blindness Simulation

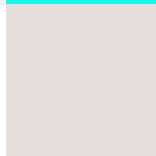
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



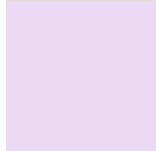
### Original Color

49.9718, 75.7045, 90.5759



### Protanopia

71.0893, 73.9625, 76.8591



### Deuteranopia

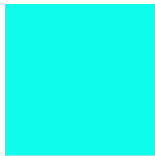
75.5826, 73.9296, 95.0802



## Tritanopia

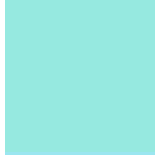
59.5266, 74.8585, 105.9195

# Trichromacy



## Original Color

49.9718, 75.7045, 90.5759



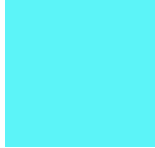
## Protanomaly

55.1711, 70.1437, 81.1523



## Deuteranomaly

57.5426, 69.8535, 92.8883



## Tritanomaly

53.7076, 73.7540, 100.2122

# Monochromacy



## Original Color

49.9718, 75.7045, 90.5759



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

39.9879, 52.1881, 61.9986

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9718, 75.7045, 90.5759 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(13, 252, 235)` looks like.

```
.text, #text, p{  
    color:rgb(13, 252, 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(13, 252, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 252, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9718, 75.7045, 90.5759 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(13, 252, 235) }
```



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

```
.border{ border-color:rgb(13, 252, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 252, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 252, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 252, 235);  
box-shadow:4px 4px 4px 4px rgb(13, 252,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9718, 75.7045, 90.5759 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 252, 235) }
```

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

```
.background{ background-color: rgb(13, 252,  
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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