

# Converting Colors

XYZ(28.7485, 54.9283,  
114.5621)

Have a look what the booklet for  
XYZ(28.7485, 54.9283, 114.5621)  
contains.

<b>XYZ(46.6259, 64.3718, 104.5753)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(46.6259, 64.3718,  
104.5753)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E7FF
RGB	0, 231, 255
RGB Percent	0%, 91%, 100%
CMY	0.9997, 0.0941, 0.0000
CMYK	1.00, 0.09, 0.00, 0.00
HSL	186°, 100%, 50%
HSV	186°, 100%, 100%
XYZ	46.6259, 64.3718, 104.5753
YIQ	164.6670, -145.3800, -41.5080

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 121, 255
Decimal	59391
CIELab	84.16, -37.38, -24.64
CIELCh	84, 44.773, 213.388
Yxy	64.3718, 0.2163, 0.2986
Android (android.graphics.Color)	4278249471 (0xFF00E7FF)
YUV	164.6670, 44.5342, -144.4130
Hunter-Lab	80.2320, -36.6729, -21.1168

# Details

The XYZ color **46.6259, 64.3718, 104.5753** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light saturated cyan. A complement of this color would be **41.5686, 21.9165, 2.0416**, and the grayscale version is **35.4599, 37.3065, 40.6268**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **25.5230, 34.7372, 58.7858** is the 20% darker color. If you saturate the color by 10%, you get **46.6248, 64.3695, 104.5749**, and if you desaturate by 10%, it is **47.7185, 65.9406, 104.8205**.

# Distribution



- Red (0%)
- Green (91%)
- Blue (100%)



- Red (0%)
- Yellow (47%)
- Blue (100%)



- Cyan (100%)
- Magenta (9%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (9%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.6259, 64.3718, 104.5753 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 46.6259, 64.3718, 104.5753 by changing the saturation by 10% instead.





 46.6259, 64.3718,  
104.5753


 46.6259, 64.3718,  
104.5753


363.9932,  
440.5310, 596.1355


 32.9467, 46.9519,  
79.4889


 84.3771, 111.1462,  
169.5371


 22.2447, 32.9976,  
58.7742

 109.1798,  
141.2695, 210.2496


 14.1544, 22.1246,  
42.0126

 138.4211,  
176.3960, 257.0080

 8.3106, 13.9485,  
28.7855

 172.4662,  
216.9102, 310.2306

 4.3478, 8.0849,  
18.6744

 211.6807,  
263.1964, 370.3362

 1.9007, 4.1493,  
11.2608

256.4298,

 0.5772, 1.7574,

315.6390, 437.7432

6.1262

307.0788,  
374.6224, 512.8701

■ 0.0000, 0.4604,  
2.8519

■ 0.0000, 0.0000,  
1.0195

■ 46.6259, 64.3718,  
104.5753

■ 46.6259, 64.3718,  
104.5753

■ 46.6248, 64.3695,  
104.5749

■ 47.7185, 65.9406,  
104.8205

■ 49.3581, 67.8038,  
105.0937

■ 51.7105, 70.0483,  
105.4030

■ 54.8766, 72.7261,  
105.7530

■ 58.9406, 75.8807,  
106.1477

■ 63.9765, 79.5502,  
106.5905

■ 70.0504, 83.7688,  
107.0847

■ 77.2225, 88.5677,  
107.6330

■ 85.5486, 93.9755,  
108.2379

# Harmonies

## Analogous

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



44.0803, 64.3718, 73.3615



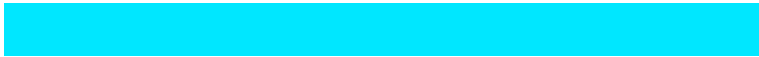
46.6259, 64.3718, 104.5753



53.0465, 64.3718, 131.0032

# Triad

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



46.6259, 64.3718, 104.5753



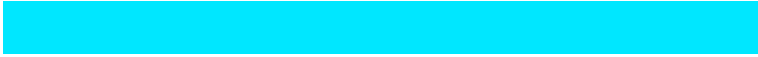
79.8295, 64.3718, 97.4565



60.0653, 64.3718, 28.5383

# Complementary

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



46.6259, 64.3718, 104.5753



41.5686, 21.9165, 2.0416

# 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.



70.1127, 64.3718, 31.7738



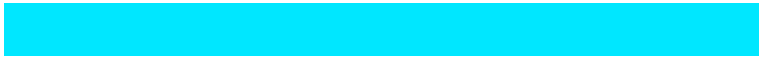
46.6259, 64.3718, 104.5753



82.2212, 64.3718, 66.9171

# Square

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



46.6259, 64.3718, 104.5753



72.2683, 64.3718, 126.1749



78.4937, 64.3718, 44.1657



51.2944, 64.3718, 33.7134

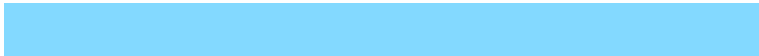


# Rectangle

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



46.6259, 64.3718, 104.5753



59.0177, 64.3718, 139.3892



78.4937, 64.3718, 44.1657



63.4016, 64.3718, 28.6854

# Sweetspot

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



46.6277, 64.3740, 104.5756



70.0306, 83.7554, 107.0831



35.8993, 71.5758, 12.6486



14.4136, 17.5318, 22.8742



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.



46.6277, 64.3740, 104.5756



46.6248, 64.3695, 104.5749



23.2354, 17.5894, 96.7782



18.4001, 20.1718, 23.1737



24.4225, 33.7545, 54.6627



2.4187, 3.3682, 5.3359



# Inverse Universe

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



55.6651, 27.0314, 77.8873



55.6632, 27.0293, 77.8816



51.9534, 42.6861, 5.5032



18.7146, 18.2692, 22.3802



29.1155, 14.1355, 40.8544

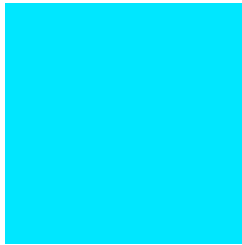


2.8555, 1.3846, 4.0863



# Previews

## White Background



This preview shows how the XYZ color 46.6259, 64.3718, 104.5753 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

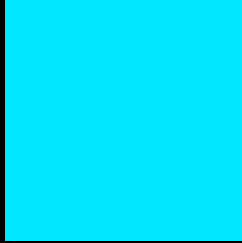
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.6259, 64.3718, 104.5753 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 46.6259, 64.3718, 104.5753

## Background



This preview shows how black text looks on a background with the XYZ color 46.6259, 64.3718, 104.5753.



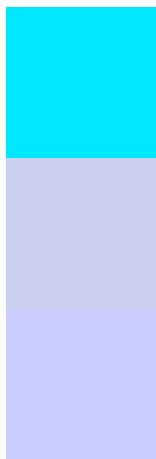
This preview shows how white text looks on a background with the XYZ color 46.6259, 64.3718,



# 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

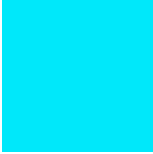
46.6259, 64.3718, 104.5753

### Protanopia

62.5214, 63.5542, 90.6333

### Deuteranopia

64.2384, 63.4392, 103.4670



## **Tritanopia**

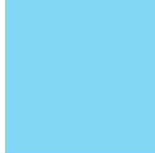
46.1119, 64.6154, 100.4841

# Trichromacy



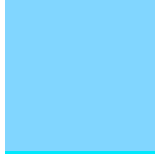
## Original Color

46.6259, 64.3718, 104.5753



## Protanomaly

50.0906, 60.3714, 95.3990



## Deuteranomaly

51.1498, 59.9803, 103.4892



## Tritanomaly

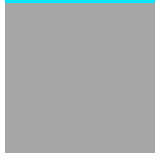
46.4273, 64.7415, 102.1448

# Monochromacy



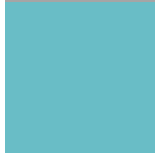
## Original Color

46.6259, 64.3718, 104.5753



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

34.2163, 43.4757, 60.0143

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.6259, 64.3718, 104.5753 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(0, 231, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 231, 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(0, 231, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 231, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.6259, 64.3718, 104.5753 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(0, 231, 255) }
```



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

```
.border{ border-color:rgb(0, 231, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 231, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 231, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 231, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 231,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.6259, 64.3718, 104.5753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 231, 255) }
```

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

```
.background{ background-color: rgb(0, 231,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor