

# Converting Colors

XYZ(66.6042, 71.7216,  
217.6358)

Have a look what the booklet for  
XYZ(66.6042, 71.7216, 217.6358)  
contains.

<b>XYZ(46.3468, 63.8136, 104.4823)</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> .....	30

# Color

**XYZ(46.3468, 63.8136,  
104.4823)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E6FF
RGB	0, 230, 255
RGB Percent	0%, 90%, 100%
CMY	0.9997, 0.0980, 0.0000
CMYK	1.00, 0.10, 0.00, 0.00
HSL	186°, 100%, 50%
HSV	186°, 100%, 100%
XYZ	46.3468, 63.8136, 104.4823
YIQ	164.0800, -145.1050, -40.9850

# Conversions

## Conversions Part 2

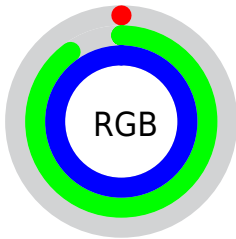
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 121, 255
Decimal	59135
CIELab	83.87, -36.92, -25.08
CIELCh	84, 44.634, 214.189
Yxy	63.8136, 0.2159, 0.2973
Android (android.graphics.Color)	4278249215 (0xFF00E6FF)
YUV	164.0800, 44.8236, -143.8982
Hunter-Lab	79.8834, -36.2338, -21.6291

# Details

The XYZ color **46.3468, 63.8136, 104.4823** 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 **41.5896, 21.9585, 2.0486**, and the grayscale version is **35.1790, 37.0110, 40.3050**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **25.3291, 34.3493, 58.7212** is the 20% darker color. If you saturate the color by 10%, you get **46.3456, 63.8112, 104.4819**, and if you desaturate by 10%, it is **47.4638, 65.4312, 104.7356**.

# Distribution



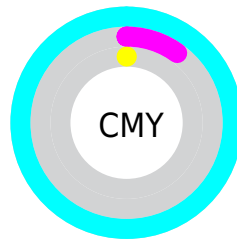
- Red (0%)
- Green (90%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (10%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3468, 63.8136, 104.4823 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 46.3468, 63.8136, 104.4823 by changing the saturation by 10% instead.





 46.3468, 63.8136,  
104.4823

 46.3468, 63.8136,  
104.4823


362.8938,  
438.5162, 595.8387

 32.7254, 46.4997,  
79.4115


 83.9625, 110.3424,  
169.4088


 22.0744, 32.6403,  
58.7109


 108.6874,  
140.3262, 210.1015


 14.0285, 21.8511,  
41.9619


 137.8442,  
175.3020, 256.8386

 8.2223, 13.7475,  
28.7461

 171.7982,  
215.6543, 310.0386

 4.2905, 7.9453,  
18.6449

 210.9149,  
261.7675, 370.1201

 1.8678, 4.0599,  
11.2398

255.5594,

 0.5580, 1.7072,

314.0260, 437.5016

6.1122

306.0973,  
372.8141, 512.6016

■ 0.0000, 0.4283,  
2.8435

■ 0.0000, 0.0000,  
1.0153

■ 46.3468, 63.8136,  
104.4823

■ 46.3468, 63.8136,  
104.4823

■ 46.3456, 63.8112,  
104.4819

■ 47.4638, 65.4312,  
104.7356

■ 49.1285, 67.3447,  
105.0172

■ 51.5069, 69.6410,  
105.3351

■ 54.6996, 72.3722,  
105.6940

■ 58.7911, 75.5818,  
106.0979

■ 63.8553, 79.3079,  
106.5502

■ 69.9582, 83.5847,  
107.0540

■ 77.1603, 88.4434,  
107.6122

■ 85.5170, 93.9126,  
108.2275

# Harmonies

## Analogous

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



43.7152, 63.8136, 73.5045



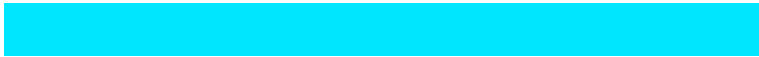
46.3468, 63.8136, 104.4823



52.8036, 63.8136, 130.3589

# Triad

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



46.3468, 63.8136, 104.4823



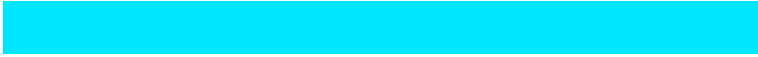
79.2722, 63.8136, 95.7634



59.2851, 63.8136, 28.3244

# Complementary

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



46.3468, 63.8136, 104.4823



41.5896, 21.9585, 2.0486

# 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.



69.2440, 63.8136, 31.3077



46.3468, 63.8136, 104.4823



81.4822, 63.8136, 65.6093

# Square

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



46.3468, 63.8136, 104.4823



71.8844, 63.8136, 124.4464



77.6361, 63.8136, 43.3274



50.6568, 63.8136, 33.6854

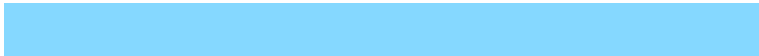


# Rectangle

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



46.3468, 63.8136, 104.4823



58.7627, 63.8136, 138.2922



77.6361, 63.8136, 43.3274



62.5832, 63.8136, 28.3978

# Sweetspot

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



46.3486, 63.8158, 104.4826



69.9385, 83.5712, 107.0524



35.8993, 71.5758, 12.6485



14.3913, 17.4871, 22.8668



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.



46.3486, 63.8158, 104.4826



46.3456, 63.8112, 104.4819



23.2354, 17.5893, 96.7782



18.3937, 20.1590, 23.1716



24.2788, 33.4671, 54.6148



2.4062, 3.3432, 5.3317



# Inverse Universe

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



55.5242, 26.9750, 77.1454



55.5223, 26.9729, 77.1396



51.9533, 42.6860, 5.5032



18.7114, 18.2679, 22.3631



29.0430, 14.1065, 40.4724

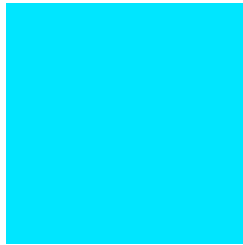


2.8492, 1.3820, 4.0531



# Previews

## White Background



This preview shows how the XYZ color 46.3468, 63.8136, 104.4823 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

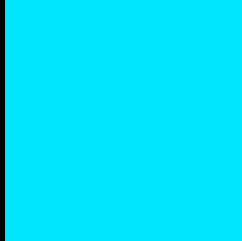
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3468, 63.8136, 104.4823 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 46.3468, 63.8136, 104.4823**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3468, 63.8136, 104.4823.



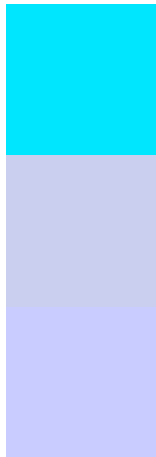
This preview shows how white text looks on a background with the XYZ color 46.3468, 63.8136,



# 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

46.3468, 63.8136, 104.4823

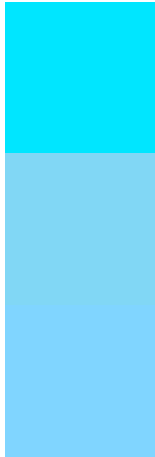
### Protanopia

62.0084, 62.9312, 90.5401

### Deuteranopia

63.7303, 62.8232, 103.3749

# Trichromacy



## Original Color

46.3468, 63.8136, 104.4823

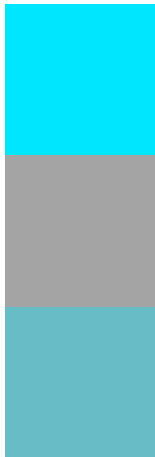
## Protanomaly

49.8351, 59.8606, 95.3139

## Deuteranomaly

50.7463, 59.3977, 103.3980

# Monochromacy



## Original Color

46.3468, 63.8136, 104.4823

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

33.7702, 42.9407, 59.3318

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3468, 63.8136, 104.4823 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, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 230, 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, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 230, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3468, 63.8136, 104.4823 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, 230, 255) }
```

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

```
.border{ border-color:rgb(0, 230, 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, 230, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 230,  
255) }
```



# Background

The CSS property to change the background color of an element to XYZ 46.3468, 63.8136, 104.4823 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 230, 255) }
```

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

```
.background{ background-color: rgb(0, 230,  
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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