

Converting Colors

XYZ(47.8662, 67.9871,
118.4000)

Have a look what the booklet for
XYZ(47.8662, 67.9871, 118.4000)
contains.

XYZ(48.9165, 68.9530, 105.3388)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(48.9165, 68.9530,
105.3388)**

Conversions

Conversions Part 1

Format	Color
Hex	00EFFF
RGB	0, 239, 255
RGB Percent	0%, 94%, 100%
CMY	0.9997, 0.0627, 0.0000
CMYK	1.00, 0.06, 0.00, 0.00
HSL	184°, 100%, 50%
HSV	184°, 100%, 100%
XYZ	48.9165, 68.9530, 105.3388
YIQ	169.3630, -147.5800, -45.6920

Conversions

Conversions Part 2

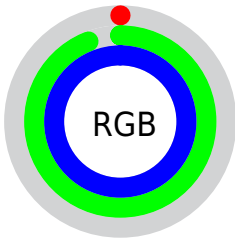
Format	Color
RYB	0, 123, 255
Decimal	61439
CIELab	86.48, -41.04, -21.12
CIELCh	86, 46.151, 207.227
Yxy	68.9530, 0.2192, 0.3089
Android (android.graphics.Color)	4278251519 (0xFF00EFFF)
YUV	169.3630, 42.2190, -148.5314
Hunter-Lab	83.0379, -40.1645, -17.0865

Details

The XYZ color **48.9165, 68.9530, 105.3388** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **41.4268, 21.6329, 1.9943**, and the grayscale version is **37.7536, 39.7198, 43.2548**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **26.9210, 37.5331, 59.2518** is the 20% darker color. If you saturate the color by 10%, you get **48.9160, 68.9521, 105.3387**, and if you desaturate by 10%, it is **49.8033, 70.1101, 105.5154**.

Distribution



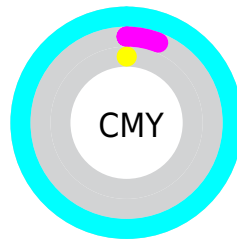
- Red (0%)
- Green (94%)
- Blue (100%)



- Red (0%)
- Yellow (48%)
- Blue (100%)



- Cyan (100%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (6%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9165, 68.9530, 105.3388 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 48.9165, 68.9530, 105.3388 by changing the saturation by 10% instead.

48.9165, 68.9530,
105.3388

48.9165, 68.9530,
105.3388

372.9359,
456.8652, 598.5693

34.7675, 50.6734,
80.1250

87.7689, 117.7144,
170.5904

23.6495, 35.9488,
59.2944

113.2030,
148.9651, 211.4653

15.1972, 24.3946,
42.4286

143.1295,
185.3083, 258.3975

9.0451, 15.6266,
29.1090

177.9138,
227.1283, 311.8058

4.8280, 9.2603,
18.9170

217.9213,
274.8096, 372.1086

2.1804, 4.9114,
11.4341

263.5172,

0.7324, 2.1954,

328.7366, 439.7244

6.2418

315.0670,
389.2937, 515.0718

■ 0.0000, 0.7175,
2.9215

■ 0.0000, 0.0000,
1.0547

■ 48.9165, 68.9530,
105.3388

■ 48.9165, 68.9530,
105.3388

■ 48.9160, 68.9521,
105.3387

■ 49.8033, 70.1101,
105.5154

■ 51.2319, 71.5513,
105.7183

■ 53.3682, 73.3636,
105.9555

■ 56.3129, 75.5987,
106.2318

■ 60.1506, 78.3005,
106.5510

■ 64.9548, 81.5067,
106.9166

■ 70.7919, 85.2517,
107.3318

■ 77.7220, 89.5663,
107.7994

■ 85.8007, 94.4794,
108.3219

Harmonies

Analogous

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



47.0868, 68.9530, 72.2682



48.9165, 68.9530, 105.3388



55.0354, 68.9530, 136.2026

Triad

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



48.9165, 68.9530, 105.3388



84.3715, 68.9530, 111.6376



66.5364, 68.9530, 30.3140

Complementary

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



48.9165, 68.9530, 105.3388



41.4268, 21.6329, 1.9943

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.



77.2978, 68.9530, 35.6807



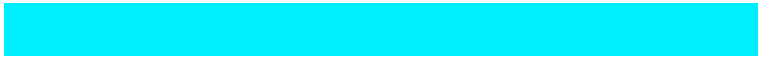
48.9165, 68.9530, 105.3388



88.2710, 68.9530, 77.9599

Square

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



48.9165, 68.9530, 105.3388



75.3925, 68.9530, 140.4795



85.5528, 68.9530, 51.2505



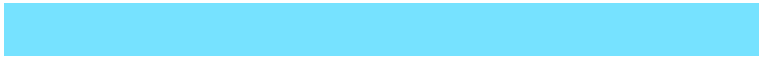
56.5815, 68.9530, 33.9756

Rectangle

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



48.9165, 68.9530, 105.3388



61.1005, 68.9530, 148.3081



85.5528, 68.9530, 51.2505



70.1848, 68.9530, 31.0780

Sweetspot

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



48.9184, 68.9554, 105.3392



70.7727, 85.2395, 107.3305



35.8325, 71.5491, 12.2966



14.5940, 17.8925, 22.9344



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.



48.9184, 68.9554, 105.3392



48.9160, 68.9521, 105.3387



24.1580, 19.4346, 97.0857



18.4515, 20.2746, 23.1908



25.6015, 36.1126, 55.0557



2.5211, 3.5729, 5.3700

Inverse Universe

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



56.8213, 27.4939, 83.9759



56.8198, 27.4919, 83.9719



50.6601, 40.0996, 5.0721



18.7406, 18.2795, 22.5169



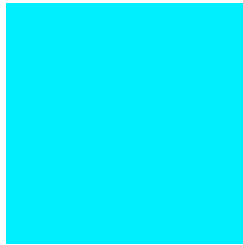
29.7107, 14.3736, 43.9883



2.9071, 1.4052, 4.3584

Previews

White Background



This preview shows how the XYZ color 48.9165, 68.9530, 105.3388 looks on a white background.

Color Contrast Check

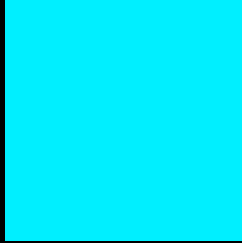
Large Text (above 18pt) WCAG AA × Fail

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 48.9165, 68.9530, 105.3388 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 48.9165, 68.9530, 105.3388

Background



This preview shows how black text looks on a background with the XYZ color 48.9165, 68.9530, 105.3388.

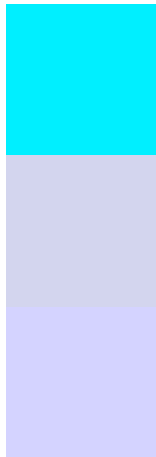


This preview shows how white text looks on a background with the XYZ color 48.9165, 68.9530,

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

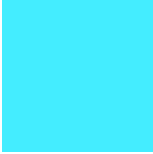
48.9165, 68.9530, 105.3388

Protanopia

66.0908, 67.6104, 90.4557

Deuteranopia

68.4956, 67.8056, 104.0854



Tritanopia

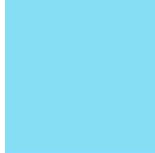
50.7181, 69.0173, 105.2563

Trichromacy



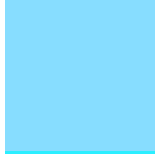
Original Color

48.9165, 68.9530, 105.3388



Protanomaly

52.2819, 63.8425, 95.1552



Deuteranomaly

53.8981, 64.0838, 104.1364



Tritanomaly

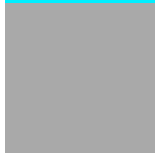
49.6208, 68.8827, 105.2881

Monochromacy



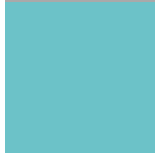
Original Color

48.9165, 68.9530, 105.3388



Achromatopsia

37.7116, 39.6755, 43.2066



Achromatomaly

35.9015, 45.9418, 61.6190

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.9165, 68.9530, 105.3388 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, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 239, 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, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 239, 255) }
```

Border

The CSS property to change the border of an element to XYZ 48.9165, 68.9530, 105.3388 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, 239, 255) }
```


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

```
.border{ border-color:rgb(0, 239, 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, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 239,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 48.9165, 68.9530, 105.3388 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 239, 255) }
```

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

```
.background{ background-color: rgb(0, 239,  
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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