

# Converting Colors

XYZ(46.8677, 59.2941,  
103.5825)

Have a look what the booklet for  
XYZ(46.8677, 59.2941, 103.5825)  
contains.

<b>XYZ(46.8677, 59.2941, 103.5825)</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(46.8677, 59.2941,  
103.5825)**

# Conversions

## Conversions Part 1

Format	Color
Hex	55DAFF
RGB	85, 218, 255
RGB Percent	33%, 85%, 100%
CMY	0.6666, 0.1451, 0.0000
CMYK	0.67, 0.15, 0.00, 0.00
HSL	193°, 100%, 67%
HSV	193°, 67%, 100%
XYZ	46.8677, 59.2941, 103.5825
YIQ	182.4510, -91.1450, -16.6890

# Conversions

## Conversions Part 2

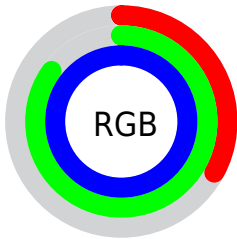
Format	Color
R <sub>Y</sub> B	85, 160, 255
Decimal	5626623
CIE Lab	81.45, -25.04, -28.68
CIE LCh	81, 38.071, 228.875
Yxy	59.2941, 0.2235, 0.2827
Android (android.graphics.Color)	4283816703 (0xFF55DAFF)
YUV	182.4510, 35.7667, -85.4645
Hunter-Lab	77.0027, -26.1106, -25.8539

# Details

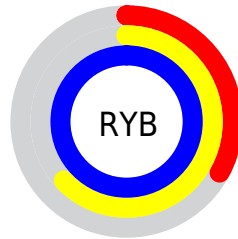
The XYZ color **46.8677, 59.2941, 103.5825** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **49.8405, 35.8368, 12.8867**, and the grayscale version is **44.5581, 46.8785, 51.0507**.

A 20% lighter version of the original color is **66.7589, 85.4154, 107.5760**, and **23.2902, 30.2716, 58.0416** is the 20% darker color. If you saturate the color by 10%, you get **43.5410, 55.4794, 103.0215**, and if you desaturate by 10%, it is **51.0797, 63.6391, 104.1991**.

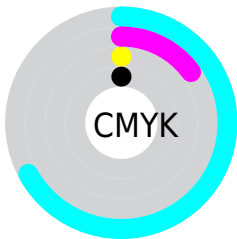
# Distribution



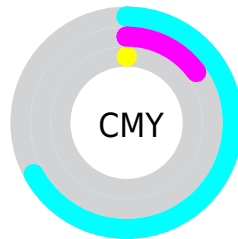
- Red (33%)
- Green (85%)
- Blue (100%)



- Red (33%)
- Yellow (63%)
- Blue (100%)



- Cyan (67%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)



- Cyan (67%)
- Magenta (15%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8677, 59.2941, 103.5825 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 46.8677, 59.2941, 103.5825 by changing the saturation by 10% instead.



46.8677, 59.2941,  
103.5825

46.8677, 59.2941,  
103.5825

364.9439,  
421.9909, 592.9629

33.1386, 42.8499,  
78.6623

84.7361, 103.8050,  
168.1664

22.3924, 29.7674,  
58.0985

109.6060,  
132.6405, 208.6671

14.2637, 19.6621,  
41.4726

138.9203,  
166.3752, 255.1985

8.3872, 12.1497,  
28.3661

173.0442,  
205.3935, 308.1789

4.3976, 6.8457,  
18.3604

212.3432,  
250.0799, 368.0271

1.9294, 3.3658,  
11.0369

257.1826,

0.5939, 1.3255,

300.8186, 435.1614

5.9772

307.9277,  
357.9942, 510.0005

■ 0.0000, 0.1609,  
2.7626

■ 0.0000, 0.0000,  
0.9748

■ 46.8677, 59.2941,  
103.5825

■ 46.8677, 59.2941,  
103.5825

■ 43.5410, 55.4794,  
103.0215

■ 51.0797, 63.6391,  
104.1991

■ 40.9994, 52.1391,  
102.5107

■ 56.2527, 68.5506,  
104.8745

■ 39.1257, 49.2132,  
102.0447

■ 62.4599, 74.0681,  
105.6123

■ 38.5890, 48.2980,  
101.8963

■ 69.7657, 80.2255,  
106.4158

■ 78.2291, 87.0539,  
107.2877

■ 87.9049, 94.5822,  
108.2308

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.



43.0656, 59.2941, 79.8244



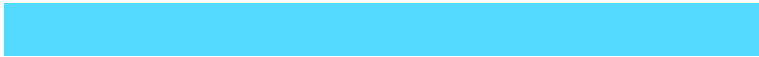
46.8677, 59.2941, 103.5825



53.4520, 59.2941, 117.9052

# Triad

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



46.8677, 59.2941, 103.5825



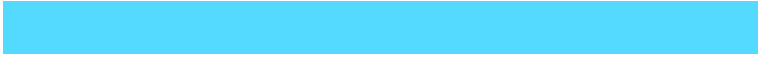
72.7697, 59.2941, 73.4046



51.5440, 59.2941, 31.3023

# Complementary

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



46.8677, 59.2941, 103.5825



49.8405, 35.8368, 12.8867

# 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.



59.3660, 59.2941, 30.3644



46.8677, 59.2941, 103.5825



72.1359, 59.2941, 51.3793

# Square

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



46.8677, 59.2941, 103.5825



68.7061, 59.2941, 97.9401



67.0484, 59.2941, 36.8246



45.5845, 59.2941, 39.7852



# Rectangle

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



46.8677, 59.2941, 103.5825



58.7546, 59.2941, 118.3529



67.0484, 59.2941, 36.8246



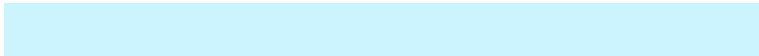
54.0261, 59.2941, 30.1837

# Sweetspot

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



46.8694, 59.2962, 103.5828



75.2725, 84.6987, 106.9889



43.0102, 74.8530, 30.5420



15.6005, 17.7172, 22.8475



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

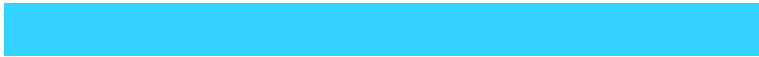


# Same Dimension

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



46.8694, 59.2962, 103.5828



42.6105, 54.3144, 102.8457



30.2085, 25.9744, 98.0291



18.1997, 19.7710, 23.1069



20.2783, 25.4661, 53.2813



2.0536, 2.6379, 5.2142



# Inverse Universe

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



57.1446, 32.8207, 69.6550



54.1317, 28.3108, 63.9776



65.1532, 66.4623, 17.9909



18.6134, 18.2287, 21.8475



27.0237, 13.2988, 29.8392



2.6712, 1.3108, 3.1158



# Previews

## White Background



This preview shows how the XYZ color 46.8677, 59.2941, 103.5825 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

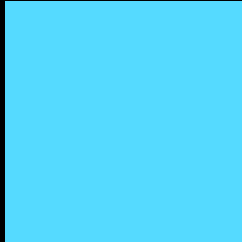
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8677, 59.2941, 103.5825 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 46.8677, 59.2941, 103.5825

## Background



This preview shows how black text looks on a background with the XYZ color 46.8677, 59.2941, 103.5825.



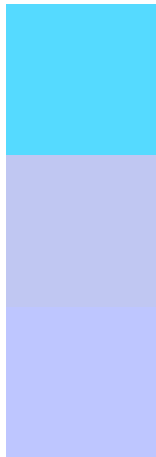
This preview shows how white text looks on a background with the XYZ color 46.8677, 59.2941,



# 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

46.8677, 59.2941, 103.5825

### Protanopia

58.1887, 58.4641, 92.2222

### Deuteranopia

59.4793, 58.5553, 102.7752



## Tritanopia

44.4169, 59.4814, 90.8014

# Trichromacy



## Original Color

46.8677, 59.2941, 103.5825

## Protanomaly

51.9967, 57.6303, 96.3789

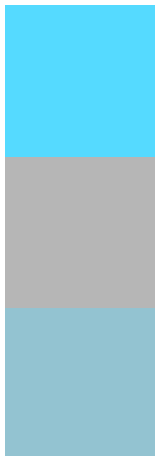
## Deuteranomaly

52.8302, 57.5580, 102.9331

## Tritanomaly

45.2991, 59.4412, 95.4720

# Monochromacy



## Original Color

46.8677, 59.2941, 103.5825

## Achromatopsia

44.4628, 46.7784, 50.9417

## Achromatomaly

43.0564, 49.8367, 67.6717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8677, 59.2941, 103.5825 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(85, 218, 255)` looks like.

```
.text, #text, p{  
    color:rgb(85, 218, 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(85, 218, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 218, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8677, 59.2941, 103.5825 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(85, 218, 255) }
```



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

```
.border{ border-color:rgb(85, 218, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 218, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 218, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 218, 255);  
box-shadow:4px 4px 4px 4px rgb(85, 218,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8677, 59.2941, 103.5825 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 218, 255) }
```

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

```
.background{ background-color: rgb(85, 218,  
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