

# Converting Colors

XYZ(67.6677, 100.0000,  
163.7083)

Have a look what the booklet for  
XYZ(67.6677, 100.0000, 163.7083)  
contains.

<b>XYZ(53.8100, 78.7400, 106.9700)</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(53.8100, 78.7400,  
106.9700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFFF
RGB	0, 255, 255
RGB Percent	0%, 100%, 100%
CMY	0.9997, 0.0000, 0.0000
CMYK	1.00, 0.00, 0.00, 0.00
HSL	180°, 100%, 50%
HSV	180°, 100%, 100%
XYZ	53.8100, 78.7400, 106.9700
YIQ	178.7550, -151.9800, -54.0600

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 255
Decimal	65535
CIELab	91.12, -48.08, -14.14
CIELCh	91, 50.115, 196.386
Yxy	78.7400, 0.2247, 0.3287
Android (android.graphics.Color)	4278255615 (0xFF00FFFF)
YUV	178.7550, 37.5888, -156.7681
Hunter-Lab	88.7356, -47.0433, -9.3587

# Details

The XYZ color **53.8100, 78.7400, 106.9700** is a light color, and the websafe version is hex **00FFFF**, and the color name is **aqua**. The color can be described as light saturated cyan. A complement of this color would be **41.2412, 21.2618, 1.9325**, and the grayscale version is **42.5935, 44.8116, 48.7999**.

A 20% lighter version of the original color is **61.6952, 82.8049, 107.3390**, and **30.1593, 44.0097, 60.3312** is the 20% darker color. If you saturate the color by 10%, you get **53.8100, 78.7400, 106.9700**, and if you desaturate by 10%, it is **54.2253, 78.9541, 106.9894**.

# Distribution



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



- Red (0%)
- Yellow (50%)
- Blue (100%)



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



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.8100, 78.7400, 106.9700 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 53.8100, 78.7400, 106.9700 by changing the saturation by 10% instead.



53.8100, 78.7400,  
106.9700

53.8100, 78.7400,  
106.9700

391.5953,  
490.6763, 603.7519

38.6798, 58.6821,  
81.4849

94.9537, 131.5928,  
172.8382

26.6904, 42.3572,  
60.4077

121.6980,  
165.1564, 214.0583

17.4762, 29.3811,  
43.3199

153.0444,  
203.9907, 261.3605

10.6720, 19.3693,  
29.8029

189.3583,  
248.4801, 315.1634

5.9124, 11.9374,  
19.4383

231.0049,  
299.0090, 375.8854

2.8320, 6.7011,  
11.8074

278.3497,

1.0656, 3.2759,

355.9617, 443.9452

6.4917

331.7581,  
419.7227, 519.7611

■ 0.0000, 1.2774,  
3.0727

■ 0.0000, 0.1236,  
1.1319

■ 53.8100, 78.7400,  
106.9700

■ 54.2253, 78.9541,  
106.9894

■ 55.1791, 79.4458,  
107.0341

■ 56.8365, 80.3002,  
107.1116

■ 59.2981, 81.5692,  
107.2268

■ 62.6485, 83.2964,  
107.3836

■ 66.9613, 85.5197,  
107.5855

■ 72.3026, 88.2733,  
107.8354

■ 78.7328, 91.5882,  
108.1364

■ 86.3073, 95.4930,  
108.4908

# Harmonies

## Analogous

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



53.5654, 78.7400, 70.3337



53.8100, 78.7400, 106.9700



59.2569, 78.7400, 146.8436

# Triad

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



53.8100, 78.7400, 106.9700



93.9070, 78.7400, 143.4516



80.7239, 78.7400, 34.2185

# Complementary

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



53.8100, 78.7400, 106.9700



41.2412, 21.2618, 1.9325

# 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.



92.9403, 78.7400, 44.4806



53.8100, 78.7400, 106.9700



101.1119, 78.7400, 103.2338

# Square

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



53.8100, 78.7400, 106.9700



81.9278, 78.7400, 171.6380



100.7394, 78.7400, 67.5136



68.1733, 78.7400, 34.6945



# Rectangle

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



53.8100, 78.7400, 106.9700



65.4964, 78.7400, 166.9024



100.7394, 78.7400, 67.5136



85.0324, 78.7400, 36.3670

# Sweetspot

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



53.8110, 78.7405, 106.9700



72.2850, 88.2642, 107.8346



35.7614, 71.5207, 11.9222



14.9625, 18.6296, 23.0572



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.



53.8110, 78.7405, 106.9700



53.8100, 78.7400, 106.9700



25.7100, 22.5386, 97.6031



18.5550, 20.4815, 23.2253



28.1169, 41.1433, 55.8941



2.7376, 4.0060, 5.4422



# Inverse Universe

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



59.2908, 28.4817, 96.9803



59.2900, 28.4800, 96.9800



48.8995, 36.5783, 4.4852



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 53.8100, 78.7400, 106.9700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

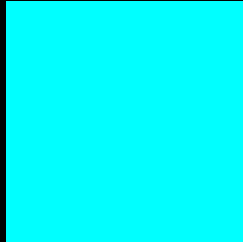
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 53.8100, 78.7400, 106.9700 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 53.8100, 78.7400, 106.9700

## Background



This preview shows how black text looks on a background with the XYZ color 53.8100, 78.7400, 106.9700.



This preview shows how white text looks on a background with the XYZ color 53.8100, 78.7400,



# 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

53.8100, 78.7400, 106.9700



### Protanopia

74.7955, 77.1652, 91.0730



### Deuteranopia

77.7164, 77.1512, 105.4033



## Tritanopia

63.5124, 77.7922, 106.2757

# Trichromacy



## Original Color

53.8100, 78.7400, 106.9700



## Protanomaly

58.4674, 73.2110, 96.6375



## Deuteranomaly

59.9711, 72.9326, 105.5243



## Tritanomaly

56.4564, 76.3942, 106.3777

# Monochromacy



## Original Color

53.8100, 78.7400, 106.9700



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

40.5147, 52.7080, 67.0698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.8100, 78.7400, 106.9700 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, 255, 255)` looks like.

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

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

## Border

The CSS property to change the border of an element to XYZ 53.8100, 78.7400, 106.9700 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, 255, 255) }
```



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

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

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

# Background

The CSS property to change the background color of an element to XYZ 53.8100, 78.7400, 106.9700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(0, 255,  
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](#)