

# Converting Colors

XYZ(77.8852, 91.7212,  
211.4833)

Have a look what the booklet for  
XYZ(77.8852, 91.7212, 211.4833)  
contains.

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# Color

**XYZ(56.2642, 80.0052,  
107.0849)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45FFFF
RGB	69, 255, 255
RGB Percent	27%, 100%, 100%
CMY	0.7294, 0.0000, 0.0000
CMYK	0.73, 0.00, 0.00, 0.00
HSL	180°, 100%, 64%
HSV	180°, 73%, 100%
XYZ	56.2642, 80.0052, 107.0849
YIQ	199.3860, -110.8560, -39.4320

# Conversions

## Conversions Part 2

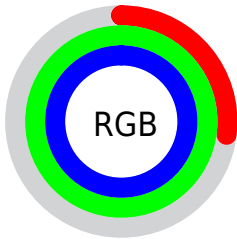
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">69, 162, 255</a>
Decimal	<a href="#">4587519</a>
CIELab	<a href="#">91.69, -44.34, -13.23</a>
CIELCh	<a href="#">92, 46.274, 196.607</a>
Yxy	<a href="#">80.0052, 0.2312, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4282777599</a> ( <a href="#">0xFF45FFFF</a> )
YUV	<a href="#">199.3860, 27.4177, -114.3485</a>
Hunter-Lab	<a href="#">89.4456, -44.2476, -8.3704</a>

# Details

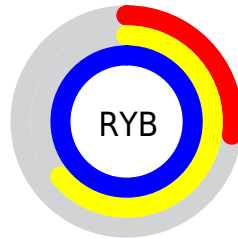
The XYZ color **56.2642, 80.0052, 107.0849** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **44.4434, 25.9476, 8.2982**, and the grayscale version is **54.4101, 57.2436, 62.3383**.

A 20% lighter version of the original color is **65.3116, 84.6693, 107.5083**, and **30.3871, 44.4654, 60.4072** is the 20% darker color. If you saturate the color by 10%, you get **54.8279, 79.2647, 107.0176**, and if you desaturate by 10%, it is **58.4788, 81.1469, 107.1885**.

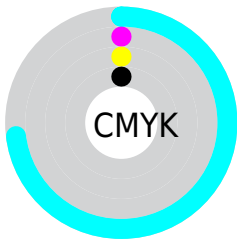
# Distribution



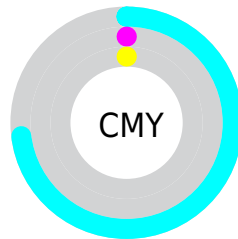
- Red (27%)
- Green (100%)
- Blue (100%)



- Red (27%)
- Yellow (64%)
- Blue (100%)



- Cyan (73%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)



- Cyan (73%)
- Magenta (0%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.2642, 80.0052, 107.0849 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 56.2642, 80.0052, 107.0849 by changing the saturation by 10% instead.





 56.2642, 80.0052,  
107.0849


 56.2642, 80.0052,  
107.0849


400.7453,  
494.9504, 604.1161

 40.6526, 59.7226,  
81.5807


 98.5283, 133.3730,  
172.9964


 28.2342, 43.1951,  
60.4862


 125.9116,  
167.2271, 214.2408

 18.6436, 30.0382,  
43.3828


 157.9495,  
206.3738, 261.5690

 11.5155, 19.8676,  
29.8519

 195.0073,  
251.1975, 315.3995

 6.4846, 12.2988,  
19.4751

237.4504,  
302.0826, 376.1510

 3.1853, 6.9475,  
11.8338

285.6442,

 1.2525, 3.4293,

359.4135, 444.2419

6.5095

339.9541,  
423.5746, 520.0907

■ 0.1472, 1.3598,  
3.0835

■ 0.0000, 0.1868,  
1.1374

■ 56.2642, 80.0052,  
107.0849

■ 56.2642, 80.0052,  
107.0849

■ 54.8279, 79.2647,  
107.0176

■ 58.4788, 81.1469,  
107.1885

■ 54.0597, 78.8687,  
106.9817

■ 61.5574, 82.7339,  
107.3326

■ 53.8100, 78.7400,  
106.9700

■ 65.5775, 84.8064,  
107.5207

■ 70.6073, 87.3993,  
107.7561

■ 76.7085, 90.5446,  
108.0416

■ 83.9380, 94.2715,  
108.3800

■ 92.3487, 98.6074,  
108.7736

■ 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.



55.9946, 80.0052, 72.8793



56.2642, 80.0052, 107.0849



61.4639, 80.0052, 143.5310

# Triad

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



56.2642, 80.0052, 107.0849



93.7948, 80.0052, 139.9579



81.4331, 80.0052, 37.8708

# Complementary

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



56.2642, 80.0052, 107.0849



44.4434, 25.9476, 8.2982

# 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.



92.7614, 80.0052, 47.8366



56.2642, 80.0052, 107.0849



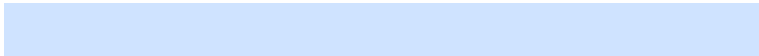
100.3818, 80.0052, 103.0868

# Square

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



56.2642, 80.0052, 107.0849



82.7294, 80.0052, 165.6231



99.9851, 80.0052, 69.7912



69.7260, 80.0052, 38.4159



# Rectangle

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



56.2642, 80.0052, 107.0849



67.3655, 80.0052, 161.6089



99.9851, 80.0052, 69.7912



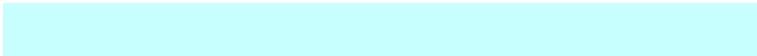
85.4344, 80.0052, 39.9641

# Sweetspot

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



56.2651, 80.0057, 107.0849



77.3367, 90.8684, 108.0710



39.2897, 73.2155, 17.6935



16.1696, 19.2518, 23.1137



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.



56.2651, 80.0057, 107.0849



54.3631, 79.0251, 106.9959



33.4265, 34.3285, 99.4720



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.



61.4189, 32.7378, 97.6896



59.7696, 29.4392, 97.1399



55.2360, 47.5327, 11.8957



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741

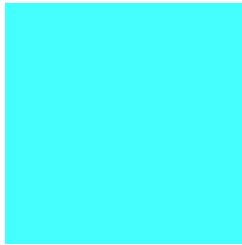


3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 56.2642, 80.0052, 107.0849 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

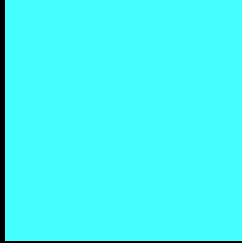
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 56.2642, 80.0052, 107.0849 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 56.2642, 80.0052, 107.0849

## Background



This preview shows how black text looks on a background with the XYZ color 56.2642, 80.0052, 107.0849.



This preview shows how white text looks on a background with the XYZ color 56.2642, 80.0052,



# Color Blindness Simulation

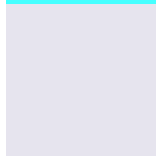
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



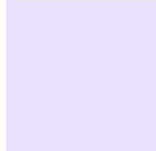
### Original Color

56.2642, 80.0052, 107.0849



### Protanopia

75.8091, 78.4828, 92.0421



### Deuteranopia

78.9069, 78.5629, 105.6130



## Tritanopia

65.8265, 79.4282, 106.4695

# Trichromacy



## Original Color

56.2642, 80.0052, 107.0849



## Protanomaly

63.6983, 76.3387, 96.9655



## Deuteranomaly

65.5010, 76.2096, 105.8654



## Tritanomaly

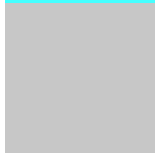
60.6708, 78.5668, 106.5750

# Monochromacy



## Original Color

56.2642, 80.0052, 107.0849



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

51.0666, 62.4529, 76.3810

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.2642, 80.0052, 107.0849 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(69, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 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(69, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 255, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 56.2642, 80.0052, 107.0849 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(69, 255, 255) }
```



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

```
.border{ border-color:rgb(69, 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(69, 255, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.2642, 80.0052, 107.0849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 255, 255) }
```

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

```
.background{ background-color: rgb(69, 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](#).

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