

# Converting Colors

XYZ(61.8650, 80.2359,  
142.9485)

Have a look what the booklet for  
XYZ(61.8650, 80.2359, 142.9485)  
contains.

<b>XYZ(55.0014, 77.4796, 106.6639)</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(55.0014, 77.4796,  
106.6639)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45FBFF
RGB	69, 251, 255
RGB Percent	27%, 98%, 100%
CMY	0.7294, 0.0157, 0.0000
CMYK	0.73, 0.02, 0.00, 0.00
HSL	181°, 100%, 64%
HSV	181°, 73%, 100%
XYZ	55.0014, 77.4796, 106.6639
YIQ	197.0380, -109.7560, -37.3400

# Conversions

## Conversions Part 2

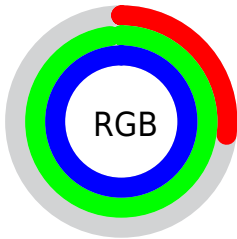
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	69, 161, 255
Decimal	4586495
CIE Lab	90.54, -42.57, -14.94
CIE LCh	91, 45.117, 199.336
Yxy	77.4796, 0.2300, 0.3240
Android (android.graphics.Color)	4282776575 (0xFF45FBFF)
YUV	197.0380, 28.5753, -112.2893
Hunter-Lab	88.0225, -42.5025, -10.2307

# Details

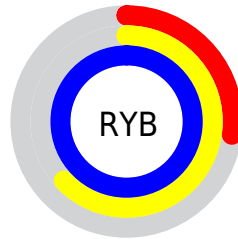
The XYZ color **55.0014, 77.4796, 106.6639** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **44.6977, 26.4561, 8.3830**, and the grayscale version is **52.9773, 55.7363, 60.6968**.

A 20% lighter version of the original color is **65.3116, 84.6693, 107.5083**, and **29.4848, 42.6608, 60.1064** is the 20% darker color. If you saturate the color by 10%, you get **53.3953, 76.3996, 106.5401**, and if you desaturate by 10%, it is **57.3886, 78.9664, 106.8251**.

# Distribution



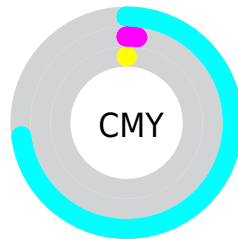
- Red (27%)
- Green (98%)
- Blue (100%)



- Red (27%)
- Yellow (63%)
- Blue (100%)



- Cyan (73%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (73%)
- Magenta (2%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.0014, 77.4796, 106.6639 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 55.0014, 77.4796, 106.6639 by changing the saturation by 10% instead.





 55.0014, 77.4796,  
106.6639


 55.0014, 77.4796,  
106.6639


396.0536,  
486.3977, 602.7812

 39.6367, 57.6466,  
81.2296


 96.6913, 129.8163,  
172.4166


 27.4383, 41.5246,  
60.1986


 123.7472,  
163.0887, 213.5721

 18.0410, 28.7292,  
43.1524


 155.4309,  
201.6097, 260.8051

 11.0793, 18.8761,  
29.6724

 192.1078,  
245.7638, 314.5341

 6.1879, 11.5808,  
19.3401

234.1431,  
295.9352, 375.1777

 3.0014, 6.4589,  
11.7370

281.9023,

 1.1545, 3.1261,

352.5084, 443.1544

6.4445

335.7506,  
415.8677, 518.8827

■ 0.0700, 1.1979,  
3.0441

■ 0.0000, 0.0600,  
1.1172

■ 55.0014, 77.4796,  
106.6639

■ 55.0014, 77.4796,  
106.6639

■ 53.3953, 76.3996,  
106.5401

■ 57.3886, 78.9664,  
106.8251

■ 52.4567, 75.6628,  
106.4474

■ 60.6392, 80.8973,  
107.0265

■ 52.0869, 75.2939,  
106.3956

■ 64.8317, 83.3146,  
107.2721

■ 70.0343, 86.2533,  
107.5651

■ 76.3089, 89.7454,  
107.9084

■ 83.7123, 93.8202,  
108.3047

■ 92.2975, 98.5049,  
108.7565

■ 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.



54.3050, 77.4796, 73.3745



55.0014, 77.4796, 106.6639



60.3848, 77.4796, 140.8450

# Triad

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



55.0014, 77.4796, 106.6639



91.3638, 77.4796, 131.6960



77.7318, 77.4796, 36.8328

# Complementary

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



55.0014, 77.4796, 106.6639



44.6977, 26.4561, 8.3830

# 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.



88.7101, 77.4796, 45.4491



55.0014, 77.4796, 106.6639



97.0978, 77.4796, 96.3953

# Square

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



55.0014, 77.4796, 106.6639



81.0652, 77.4796, 157.6609



96.0799, 77.4796, 65.4081



66.6865, 77.4796, 38.2508



# Rectangle

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



55.0014, 77.4796, 106.6639



66.2453, 77.4796, 156.9149



96.0799, 77.4796, 65.4081



81.5699, 77.4796, 38.5422

# Sweetspot

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



55.0035, 77.4824, 106.6644



76.9533, 90.1018, 107.9433



39.3885, 73.2550, 18.2138



16.0775, 19.0676, 23.0830



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.



55.0035, 77.4824, 106.6644



52.8442, 75.9873, 106.4896



32.8872, 33.2498, 99.2923



18.5194, 20.4105, 23.2135



27.2317, 39.3730, 55.5991



2.6617, 3.8541, 5.4169



# Inverse Universe

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



60.7821, 32.4831, 94.3362



59.0029, 29.1325, 93.1026



55.7888, 48.6384, 12.0800



18.7748, 18.2932, 22.6974



30.5335, 14.7027, 48.3213

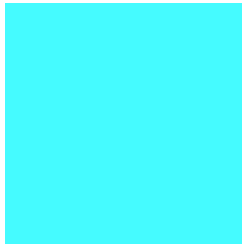


2.9781, 1.4336, 4.7321



# Previews

## White Background



This preview shows how the XYZ color 55.0014, 77.4796, 106.6639 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

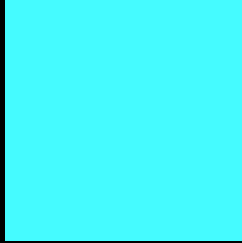
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.0014, 77.4796, 106.6639 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 55.0014, 77.4796, 106.6639

## Background



This preview shows how black text looks on a background with the XYZ color 55.0014, 77.4796, 106.6639.



This preview shows how white text looks on a background with the XYZ color 55.0014, 77.4796,



# Color Blindness Simulation

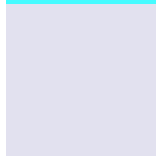
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



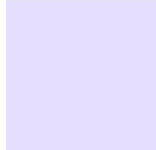
### Original Color

55.0014, 77.4796, 106.6639



### Protanopia

73.8692, 76.2512, 92.4860



### Deuteranopia

76.8044, 76.2855, 105.2843



## Tritanopia

62.2678, 76.7099, 106.1324

# Trichromacy



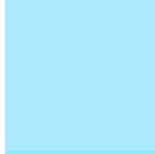
## Original Color

55.0014, 77.4796, 106.6639



## Protanomaly

62.2664, 73.8732, 97.3634



## Deuteranomaly

63.9835, 74.1558, 105.5489



## Tritanomaly

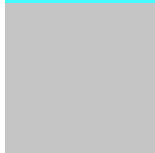
58.5876, 76.5898, 106.3032

# Monochromacy



## Original Color

55.0014, 77.4796, 106.6639



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

50.0454, 61.1717, 75.4993

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.0014, 77.4796, 106.6639 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, 251, 255)` looks like.

```
.text, #text, p{  
    color:rgb(69, 251, 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, 251, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 251, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 55.0014, 77.4796, 106.6639 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, 251, 255) }
```



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

```
.border{ border-color:rgb(69, 251, 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, 251, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 251, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 251, 255);  
box-shadow:4px 4px 4px 4px rgb(69, 251,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.0014, 77.4796, 106.6639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 251, 255) }
```

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

```
.background{ background-color: rgb(69, 251,  
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