

# Converting Colors

XYZ(31.1449, 35.3414, 56.5998)

Have a look what the booklet for  
XYZ(31.1449, 35.3414, 56.5998)  
contains.

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# Color

**XYZ(31.2768, 35.4995,  
56.8334)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77A7C3
RGB	119, 167, 195
RGB Percent	47%, 65%, 76%
CMY	0.5333, 0.3451, 0.2353
CMYK	0.39, 0.14, 0.00, 0.24
HSL	202°, 39%, 62%
HSV	202°, 39%, 76%
XYZ	31.2768, 35.4995, 56.8334
YIQ	155.8400, -37.5960, -1.4680

# Conversions

## Conversions Part 2

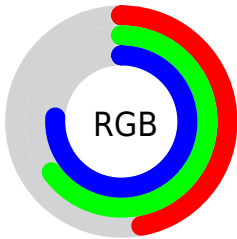
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	119, 148, 195
Decimal	7841731
CIE Lab	66.14, -8.84, -19.42
CIE LCh	66, 21.335, 245.528
Yxy	35.4995, 0.2530, 0.2872
Android (android.graphics.Color)	4286031811 (0xFF77A7C3)
YUV	155.8400, 19.3059, -32.3087
Hunter-Lab	59.5815, -10.5654, -14.8484

# Details

The XYZ color **31.2768, 35.4995, 56.8334** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **36.2699, 33.8022, 22.0667**, and the grayscale version is **31.4583, 33.0965, 36.0421**.

A 20% lighter version of the original color is **61.1475, 68.2695, 102.0500**, and **13.1852, 15.3428, 27.4658** is the 20% darker color. If you saturate the color by 10%, you get **27.5906, 31.7002, 56.2950**, and if you desaturate by 10%, it is **35.5874, 39.7309, 57.4236**.

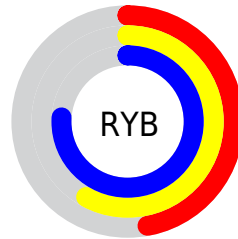
# Distribution



Red (47%)

Green (65%)

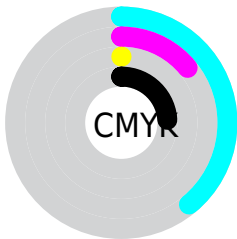
Blue (76%)



Red (47%)

Yellow (58%)

Blue (76%)

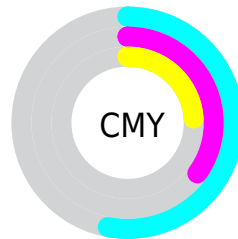


Cyan (39%)

Magenta (14%)

Yellow (0%)

Black (24%)



Cyan (53%)

Magenta (35%)

Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2768, 35.4995, 56.8334 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 31.2768, 35.4995, 56.8334 by changing the saturation by 10% instead.



■ 31.2768, 35.4995,  
56.8334

■ 31.2768, 35.4995,  
56.8334

299.6157,  
326.7676, 430.3010

■ 20.9626, 24.0479,  
40.4630

■ 61.0485, 68.2589,  
101.7200

■ 13.2090, 15.3692,  
27.5832

■ 81.2367, 90.3354,  
131.0733

■ 7.6506, 9.0789,  
17.7754

■ 105.4469,  
116.7224, 165.5913

■ 3.9221, 4.7927,  
10.6211

134.0444,  
147.8042, 205.6925

■ 1.6582, 2.1261,  
5.7017

167.3947,  
183.9652, 251.7956

■ 0.4299, 0.6793,  
2.5987

205.8632,

■ 0.0000, 0.0000,

225.5899, 304.3190

0.8918

249.8150,  
273.0626, 363.6813

■ 0.0000, 0.0000,  
0.0000

■ 31.2768, 35.4995,  
56.8334

■ 31.2768, 35.4995,  
56.8334

■ 27.5906, 31.7002,  
56.2950

■ 35.5874, 39.7309,  
57.4236

■ 24.4906, 28.3089,  
55.8038

■ 40.5511, 44.4085,  
58.0648

■ 21.9389, 25.3055,  
55.3585

■ 46.1989, 49.5506,  
58.7597

■ 19.8919, 22.6653,  
54.9568

■ 52.5585, 55.1732,  
59.5098

■ 18.2979, 20.3601,  
54.5959

■ 59.6562, 61.2915,  
60.3166

■ 17.0705, 18.3431,  
54.2713

■ 67.5169, 67.9197,  
61.1817

■ 16.9534, 18.1461,  
54.2394

■ 75.9783, 74.9760,  
62.0977

■ 77.8739, 78.7671,  
62.7296

■ 79.8511, 82.7215,  
63.3886

# Harmonies

## Analogous

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



29.0163, 35.4995, 49.7193



31.2768, 35.4995, 56.8334



34.3322, 35.4995, 58.7796

# Triad

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



31.2768, 35.4995, 56.8334



40.1843, 35.4995, 36.9944



30.3192, 35.4995, 26.1072

# Complementary

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



31.2768, 35.4995, 56.8334



36.2699, 33.8022, 22.0667

# 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.



33.1570, 35.4995, 23.7414



31.2768, 35.4995, 56.8334



38.9531, 35.4995, 29.3640

# Square

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



31.2768, 35.4995, 56.8334



39.6033, 35.4995, 46.3510



36.3318, 35.4995, 24.8331



28.4882, 35.4995, 31.8581



# Rectangle

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



31.2768, 35.4995, 56.8334



36.4388, 35.4995, 56.6578



36.3318, 35.4995, 24.8331



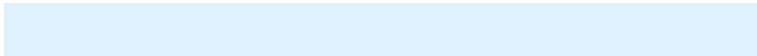
31.1801, 35.4995, 24.9344

# Sweetspot

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



31.2779, 35.5009, 56.8342



79.3552, 85.6932, 104.8278



32.3798, 45.0554, 34.5399



17.0785, 18.4942, 22.9196



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

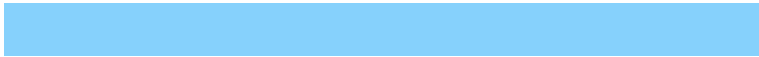


# Same Dimension

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



31.2779, 35.5009, 56.8342



50.1777, 57.5810, 100.9394



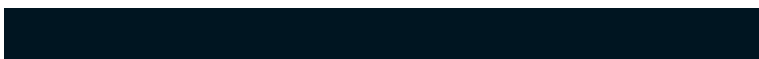
25.3269, 23.5988, 54.8506



10.0465, 10.7843, 12.8369



11.1012, 11.9589, 35.2798



0.5436, 0.6447, 1.5457



# Inverse Universe

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



36.0785, 27.5868, 39.9839



60.2815, 42.3646, 65.1516



43.1573, 47.5770, 24.3625



10.3348, 10.1825, 11.8535



16.9993, 8.4895, 13.1745



0.7668, 0.3797, 0.7393



# Previews

## White Background



This preview shows how the XYZ color 31.2768, 35.4995, 56.8334 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

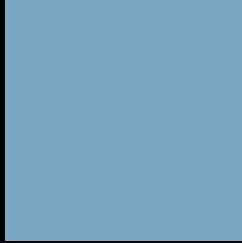
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.2768, 35.4995, 56.8334 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

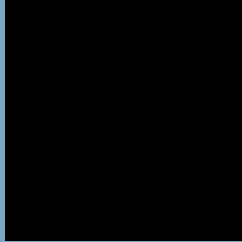
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 31.2768, 35.4995, 56.8334

## Background



This preview shows how black text looks on a background with the XYZ color 31.2768, 35.4995, 56.8334.



This preview shows how white text looks on a background with the XYZ color 31.2768, 35.4995,



# 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

31.2768, 35.4995, 56.8334

### Protanopia

34.9099, 35.3404, 53.1255

### Deuteranopia

36.0396, 35.3133, 57.7400



## Tritanopia

29.9377, 35.5078, 50.0756

# Trichromacy



## Original Color

31.2768, 35.4995, 56.8334

## Protanomaly

33.3088, 35.2650, 54.3415

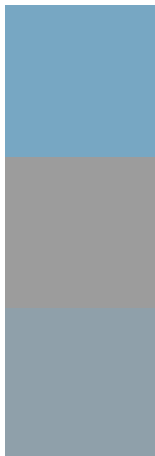
## Deuteranomaly

34.0364, 35.3149, 57.2471

## Tritanomaly

30.3084, 35.3750, 52.2443

# Monochromacy



## Original Color

31.2768, 35.4995, 56.8334

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

31.1542, 33.8835, 42.9284

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2768, 35.4995, 56.8334 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(119, 167, 195)` looks like.

```
.text, #text, p{  
    color:rgb(119, 167, 195)  
}
```

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(119, 167, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 167, 195) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2768, 35.4995, 56.8334 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(119, 167, 195) }
```



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

```
.border{ border-color:rgb(119, 167, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 167, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 167, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 167, 195);  
box-shadow:4px 4px 4px 4px rgb(119, 167,  
195) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2768, 35.4995, 56.8334 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 167, 195) }
```

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

```
.background{ background-color: rgb(119,  
167, 195) }
```

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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