

# Converting Colors

XYZ(29.2920, 34.0350, 68.7779)

Have a look what the booklet for  
XYZ(29.2920, 34.0350, 68.7779)  
contains.

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# Color

**XYZ(29.1672, 33.8768,  
68.6199)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51A6D6
RGB	81, 166, 214
RGB Percent	32%, 65%, 84%
CMY	0.6823, 0.3490, 0.1608
CMYK	0.62, 0.22, 0.00, 0.16
HSL	202°, 62%, 58%
HSV	202°, 62%, 84%
XYZ	29.1672, 33.8768, 68.6199
YIQ	146.0570, -66.0680, -3.0920

# Conversions

## Conversions Part 2

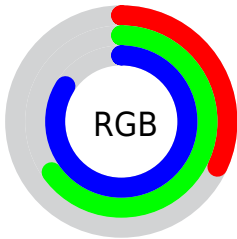
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	81, 133, 214
Decimal	5351126
CIE <sub>Lab</sub>	64.86, -11.30, -32.05
CIE <sub>LCh</sub>	65, 33.985, 250.576
Yxy	33.8768, 0.2215, 0.2573
Android (android.graphics.Color)	4283541206 (0xFF51A6D6)
YUV	146.0570, 33.4959, -57.0550
Hunter-Lab	58.2038, -12.4063, -29.1579

# Details

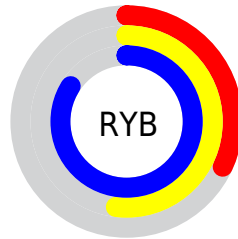
The XYZ color **29.1672, 33.8768, 68.6199** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **37.0685, 30.5928, 11.7374**, and the grayscale version is **27.2327, 28.6510, 31.2009**.

A 20% lighter version of the original color is **54.8910, 64.5956, 104.1829**, and **12.2753, 14.5378, 34.9600** is the 20% darker color. If you saturate the color by 10%, you get **26.2520, 30.3525, 68.0939**, and if you desaturate by 10%, it is **32.7467, 37.8700, 69.2027**.

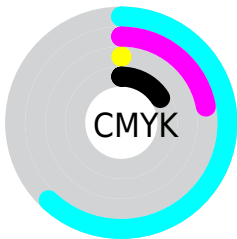
# Distribution



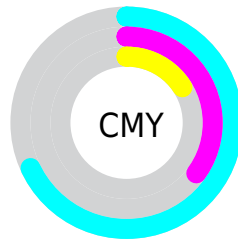
- Red (32%)
- Green (65%)
- Blue (84%)



- Red (32%)
- Yellow (52%)
- Blue (84%)



- Cyan (62%)
- Magenta (22%)
- Yellow (0%)
- Black (16%)



- Cyan (68%)
- Magenta (35%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.1672, 33.8768, 68.6199 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 29.1672, 33.8768, 68.6199 by changing the saturation by 10% instead.



■ 29.1672, 33.8768,  
68.6199

■ 29.1672, 33.8768,  
68.6199

289.9830,  
319.5824, 474.3468

■ 19.3523, 22.7990,  
49.9324

■ 57.7383, 65.7420,  
118.9011

■ 12.0306, 14.4451,  
34.9889

■ 77.2253, 87.2982,  
151.3319

■ 6.8369, 8.4309,  
23.3708

■ 100.6669,  
113.1160, 189.1808

■ 3.4057, 4.3719,  
14.6597

■ 128.4286,  
143.5798, 232.8664

■ 1.3718, 1.8837,  
8.4369

160.8757,  
179.0739, 282.8073

■ 0.2360, 0.5385,  
4.2840

198.3736,

■ 0.0000, 0.0000,

219.9827, 339.4220

1.7824

241.2875,  
266.6908, 403.1290

■ 0.0000, 0.0000,  
0.4163

■ 0.0000, 0.0000,  
0.0000

■ 29.1672, 33.8768,  
68.6199

■ 29.1672, 33.8768,  
68.6199

■ 26.2520, 30.3525,  
68.0939

■ 32.7467, 37.8700,  
69.2027

■ 23.9399, 27.2614,  
67.6192

■ 37.0376, 42.3567,  
69.8425

■ 22.1627, 24.5669,  
67.1927

■ 42.0863, 47.3634,  
70.5428

■ 21.0501, 22.6798,  
66.8871

■ 47.9342, 52.9135,  
71.3059

■ 54.6194, 59.0286,  
72.1339

■ 62.1774, 65.7290,  
73.0288

■ 70.6418, 73.0338,  
73.9927

■ 80.0441, 80.9612,  
75.0273

■ 83.2335, 85.8266,  
75.7983

# Harmonies

## Analogous

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



25.5619, 33.8768, 57.3597



29.1672, 33.8768, 68.6199



33.9586, 33.8768, 70.2620

# Triad

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



29.1672, 33.8768, 68.6199



42.3729, 33.8768, 32.1537



26.4530, 33.8768, 19.9576

# Complementary

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



29.1672, 33.8768, 68.6199



37.0685, 30.5928, 11.7374

# 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.



30.5010, 33.8768, 16.2169



29.1672, 33.8768, 68.6199



39.8954, 33.8768, 21.9759

# Square

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



29.1672, 33.8768, 68.6199



41.9229, 33.8768, 46.6031



35.4337, 33.8768, 16.8476



24.1084, 33.8768, 28.6233



# Rectangle

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



29.1672, 33.8768, 68.6199



37.2313, 33.8768, 65.3234



35.4337, 33.8768, 16.8476



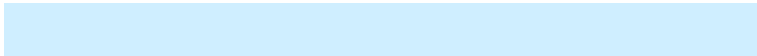
27.6417, 33.8768, 18.1959

# Sweetspot

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



29.1684, 33.8780, 68.6207



74.0897, 81.2870, 106.3928



31.3079, 51.3901, 28.5382



15.2709, 16.8549, 22.6984



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.



29.1684, 33.8780, 68.6207



37.7019, 43.4092, 100.9994



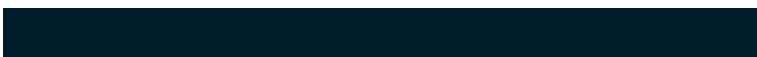
20.1812, 15.9038, 65.6250



12.3977, 13.3189, 15.8549



12.8251, 13.9120, 40.4625



0.8508, 0.9936, 2.4662



# Inverse Universe

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



37.5580, 22.9356, 38.5249



51.9197, 28.4428, 49.1943



48.5207, 53.4972, 15.5548



12.7540, 12.5531, 14.6446



19.5324, 9.7493, 15.3735



1.2171, 0.6036, 1.1325



# Previews

## White Background



This preview shows how the XYZ color 29.1672, 33.8768, 68.6199 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 29.1672, 33.8768, 68.6199 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

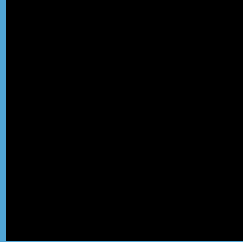
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 29.1672, 33.8768, 68.6199**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.1672, 33.8768, 68.6199.



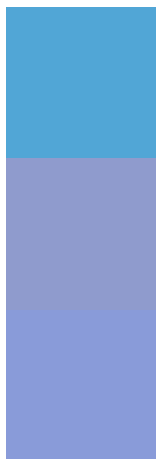
This preview shows how white text looks on a background with the XYZ color 29.1672, 33.8768,



# 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

29.1672, 33.8768, 68.6199

### Protanopia

34.0685, 33.6901, 62.4648

### Deuteranopia

34.5623, 33.7708, 70.3424



## Tritanopia

25.6346, 33.8219, 51.0761

# Trichromacy



## Original Color

29.1672, 33.8768, 68.6199

## Protanomaly

31.5290, 33.3434, 64.4487

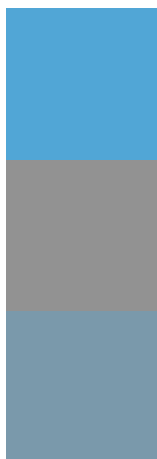
## Deuteranomaly

32.1289, 33.5360, 69.7455

## Tritanomaly

26.8243, 33.7392, 57.3231

# Monochromacy



## Original Color

29.1672, 33.8768, 68.6199

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

26.7680, 29.8603, 42.8809

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.1672, 33.8768, 68.6199 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(81, 166, 214)` looks like.

```
.text, #text, p{  
    color:rgb(81, 166, 214)  
}
```

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(81, 166, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 166, 214) }
```

## Border

The CSS property to change the border of an element to XYZ 29.1672, 33.8768, 68.6199 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(81, 166, 214) }
```



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

```
.border{ border-color:rgb(81, 166, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 166, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 166, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 166, 214);  
box-shadow:4px 4px 4px 4px rgb(81, 166,  
214) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.1672, 33.8768, 68.6199 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 166, 214) }
```

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

```
.background{ background-color: rgb(81, 166,  
214) }
```

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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