

# Converting Colors

XYZ(30.1903, 31.7046, 66.1572)

Have a look what the booklet for  
XYZ(30.1903, 31.7046, 66.1572)  
contains.

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# **Color**

**XYZ(30.1613, 31.5906,  
66.1359)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	709BD3
RGB	112, 155, 211
RGB Percent	44%, 61%, 83%
CMY	0.5608, 0.3921, 0.1725
CMYK	0.47, 0.27, 0.00, 0.17
HSL	214°, 53%, 63%
HSV	214°, 47%, 83%
XYZ	30.1613, 31.5906, 66.1359
YIQ	148.5270, -43.6040, 8.3000

# Conversions

## Conversions Part 2

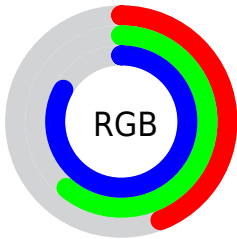
Format	Color
<a href="#">RYB</a>	<a href="#">112, 142, 211</a>
Decimal	<a href="#">7379923</a>
CIELab	<a href="#">63.00, 0.51, -33.17</a>
CIELCh	<a href="#">63, 33.169, 270.883</a>
Yxy	<a href="#">31.5906, 0.2358, 0.2470</a>
Android (android.graphics.Color)	<a href="#">4285570003 (0xFF709BD3)</a>
YUV	<a href="#">148.5270, 30.7992, -32.0342</a>
Hunter-Lab	<a href="#">56.2055, -2.5720, -30.4215</a>

# Details

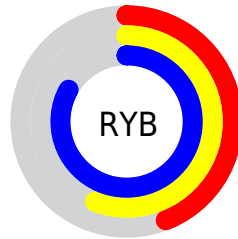
The XYZ color **30.1613, 31.5906, 66.1359** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **43.7922, 43.0252, 21.3271**, and the grayscale version is **28.2577, 29.7293, 32.3752**.

A 20% lighter version of the original color is **56.9989, 61.1458, 103.4059**, and **12.5820, 13.1417, 33.3259** is the 20% darker color. If you saturate the color by 10%, you get **25.8955, 26.5876, 65.3956**, and if you desaturate by 10%, it is **35.2547, 37.3130, 66.9726**.

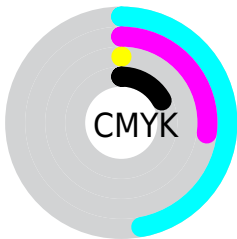
# Distribution



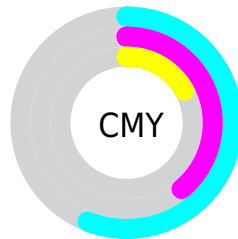
- Red (44%)
- Green (61%)
- Blue (83%)



- Red (44%)
- Yellow (56%)
- Blue (83%)



- Cyan (47%)
- Magenta (27%)
- Yellow (0%)
- Black (17%)



- Cyan (56%)
- Magenta (39%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.1613, 31.5906, 66.1359 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 30.1613, 31.5906, 66.1359 by changing the saturation by 10% instead.



■ 30.1613, 31.5906,  
66.1359

■ 30.1613, 31.5906,  
66.1359

294.5519,  
309.2501, 465.2802

■ 20.1097, 21.0490,  
47.9256

■ 59.3020, 62.1687,  
115.3102

■ 12.5836, 13.1598,  
33.4084

■ 79.1219, 82.9740,  
147.1113

■ 7.2174, 7.5387,  
22.1658

■ 102.9287,  
107.9694, 184.2797

■ 3.6460, 3.8012,  
13.7793

131.0875,  
137.5391, 227.2339

■ 1.5039, 1.5630,  
7.8303

163.9640,  
172.0676, 276.3925

■ 0.3285, 0.3325,  
3.9004

201.9233,

■ 0.0000, 0.0000,

211.9394, 332.1741

1.5708

245.3308,  
257.5387, 394.9972

■ 0.0000, 0.0000,  
0.2699

■ 0.0000, 0.0000,  
0.0000

■ 30.1613, 31.5906,  
66.1359

■ 30.1613, 31.5906,  
66.1359

■ 25.8955, 26.5876,  
65.3956

■ 35.2547, 37.3130,  
66.9726

■ 22.4037, 22.2660,  
64.7455

■ 41.2181, 43.7828,  
67.9071

■ 19.6306, 18.5892,  
64.1820

■ 48.0948, 51.0308,  
68.9436

■ 17.5110, 15.5144,  
63.7002

■ 55.9240, 59.0845,  
70.0855

■ 15.9610, 12.9883,  
63.2943

■ 64.7425, 67.9704,  
71.3359

■ 15.5546, 12.2963,  
63.1822

■ 74.5853, 77.7132,  
72.6976

■ 83.7331, 87.4335,  
74.0917

■ 87.3349, 94.6370,  
75.2923

■ 88.7580, 97.4832,  
75.7667

# Harmonies

## Analogous

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



25.9557, 31.5906, 61.3506



30.1613, 31.5906, 66.1359



34.7584, 31.5906, 60.7830

# Triad

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



30.1613, 31.5906, 66.1359



38.2029, 31.5906, 23.0439



22.9945, 31.5906, 23.5611

# Complementary

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



30.1613, 31.5906, 66.1359



43.7922, 43.0252, 21.3271

# 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.



25.7438, 31.5906, 17.0243



30.1613, 31.5906, 66.1359



34.5009, 31.5906, 16.7832

# Square

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



30.1613, 31.5906, 66.1359



39.6810, 31.5906, 34.0111



29.8909, 31.5906, 14.8927



22.0797, 31.5906, 34.7854



# Rectangle

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



30.1613, 31.5906, 66.1359



37.3607, 31.5906, 52.8107



29.8909, 31.5906, 14.8927



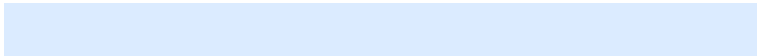
23.7200, 31.5906, 20.8542

# Sweetspot

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



30.1624, 31.5918, 66.1367



77.0066, 81.6323, 106.3057



36.9016, 52.8038, 44.5416



15.9446, 16.9150, 22.6745



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.



30.1624, 31.5918, 66.1367



39.9369, 41.0366, 100.4237



24.8826, 20.0712, 64.1912



11.5800, 12.2503, 14.9979



9.4850, 7.6165, 38.1627



0.6086, 0.5823, 2.1599



# Inverse Universe

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



38.5755, 27.8050, 34.3452



54.7181, 35.9573, 44.2154



51.6871, 60.8880, 24.3589



12.0189, 11.8923, 13.3753



17.4183, 8.8402, 7.1089



1.0134, 0.5101, 0.6054



# Previews

## White Background



This preview shows how the XYZ color 30.1613, 31.5906, 66.1359 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

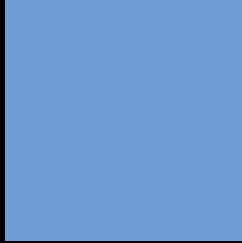
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.1613, 31.5906, 66.1359 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

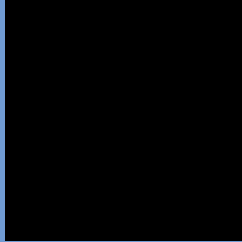
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 30.1613, 31.5906, 66.1359

## Background



This preview shows how black text looks on a background with the XYZ color 30.1613, 31.5906, 66.1359.



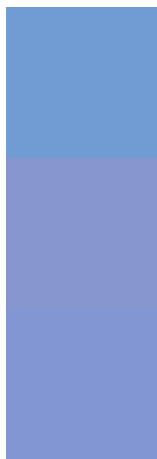
This preview shows how white text looks on a background with the XYZ color 30.1613, 31.5906,



# 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

30.1613, 31.5906, 66.1359

### Protanopia

32.1605, 31.4686, 63.4105

### Deuteranopia

32.1501, 31.3915, 66.6520



## Tritanopia

26.0250, 31.7025, 45.3050

# Trichromacy



## Original Color

30.1613, 31.5906, 66.1359

## Protanomaly

31.3658, 31.5226, 64.1058

## Deuteranomaly

31.4241, 31.4950, 66.7103

## Tritanomaly

27.3009, 31.4304, 52.2047

# Monochromacy



## Original Color

30.1613, 31.5906, 66.1359

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

28.6663, 30.3460, 43.3762

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.1613, 31.5906, 66.1359 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(112, 155, 211)` looks like.

```
.text, #text, p{  
    color:rgb(112, 155, 211)  
}
```

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(112, 155, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 155, 211) }
```

## Border

The CSS property to change the border of an element to XYZ 30.1613, 31.5906, 66.1359 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(112, 155, 211) }
```



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

```
.border{ border-color:rgb(112, 155, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 155, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 155, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 155, 211);  
box-shadow:4px 4px 4px 4px rgb(112, 155,  
211) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.1613, 31.5906, 66.1359 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 155, 211) }
```

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

```
.background{ background-color: rgb(112,  
155, 211) }
```

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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