

Converting Colors

XYZ(31.0745, 36.5759, 62.5491)

Have a look what the booklet for
XYZ(31.0745, 36.5759, 62.5491)
contains.

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Color

**XYZ(31.1311, 36.6895,
62.5677)**

Conversions

Conversions Part 1

Format	Color
Hex	66ACCC
RGB	102, 172, 204
RGB Percent	40%, 67%, 80%
CMY	0.6000, 0.3255, 0.2000
CMYK	0.50, 0.16, 0.00, 0.20
HSL	199°, 50%, 60%
HSV	199°, 50%, 80%
XYZ	31.1311, 36.6895, 62.5677
YIQ	154.7180, -51.9920, -4.8880

Conversions

Conversions Part 2

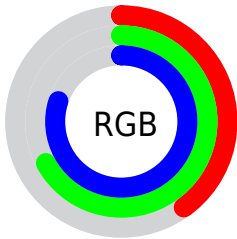
Format	Color
R _{YB}	102, 144, 204
Decimal	6728908
CIE _{Lab}	67.04, -13.29, -23.10
CIE _{LCh}	67, 26.646, 240.088
Y _{xy}	36.6895, 0.2388, 0.2814
Android (android.graphics.Color)	4284918988 (0xFF66ACCC)
YUV	154.7180, 24.2960, -46.2337
Hunter-Lab	60.5719, -14.2601, -18.8433

Details

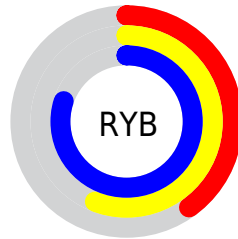
The XYZ color **31.1311, 36.6895, 62.5677** is a light color, and the websafe version is hex **3399CC**. A complement of this color would be **35.8261, 30.8478, 16.6376**, and the grayscale version is **30.9448, 32.5563, 35.4538**.

A 20% lighter version of the original color is **59.8172, 69.5291, 104.8755**, and **13.1763, 16.1272, 31.2726** is the 20% darker color. If you saturate the color by 10%, you get **27.9087, 33.2642, 62.0771**, and if you desaturate by 10%, it is **34.9833, 40.5282, 63.1063**.

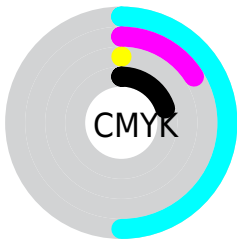
Distribution



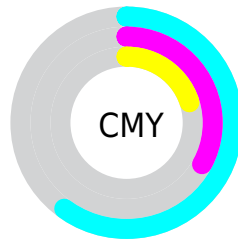
- Red (40%)
- Green (67%)
- Blue (80%)



- Red (40%)
- Yellow (56%)
- Blue (80%)



- Cyan (50%)
- Magenta (16%)
- Yellow (0%)
- Black (20%)



- Cyan (60%)
- Magenta (33%)
- Yellow (20%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1311, 36.6895, 62.5677 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 31.1311, 36.6895, 62.5677 by changing the saturation by 10% instead.

■ 31.1311, 36.6895,
62.5677

■ 31.1311, 36.6895,
62.5677

298.9579,
331.9643, 452.0636

■ 20.8510, 24.9672,
45.0528

■ 60.8209, 70.0950,
110.1251

■ 13.1270, 16.0526,
31.1558

■ 80.9612, 92.5469,
141.0048

■ 7.5936, 9.5614,
20.4580

■ 105.1191,
119.3442, 177.1764

■ 3.8857, 5.1091,
12.5411

■ 133.6598,
150.8712, 219.0586

■ 1.6376, 2.3114,
6.9863

166.9486,
187.5123, 267.0699

■ 0.4168, 0.7798,
3.3752

205.3511,

■ 0.0000, 0.0000,

229.6519, 321.6288

1.2893

249.2324,
277.6744, 383.1538

■ 0.0000, 0.0000,
0.0530

■ 0.0000, 0.0000,
0.0000

■ 31.1311, 36.6895,
62.5677

■ 31.1311, 36.6895,
62.5677

■ 27.9087, 33.2642,
62.0771

■ 34.9833, 40.5282,
63.1063

■ 25.2694, 30.2245,
61.6294

■ 39.5008, 44.7973,
63.6922

■ 23.1649, 27.5452,
61.2232

■ 44.7204, 49.5179,
64.3283

■ 21.5372, 25.1950,
60.8554

■ 50.6752, 54.7079,
65.0162

■ 20.2779, 23.1169,
60.5206

■ 57.3958, 60.3846,
65.7577

■ 20.2776, 23.1165,
60.5206

■ 64.9114, 66.5638,
66.5543

■ 73.2493, 73.2609,
67.4075

■ 78.5809, 78.5030,
68.1383

■ 80.3253, 81.9919,
68.7198

Harmonies

Analogous

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



28.5585, 36.6895, 52.2059



31.1311, 36.6895, 62.5677



34.8842, 36.6895, 66.6607

Triad

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



31.1311, 36.6895, 62.5677



43.2542, 36.6895, 39.9144



31.1119, 36.6895, 23.5909

Complementary

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



31.1311, 36.6895, 62.5677



35.8261, 30.8478, 16.6376

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.



34.8603, 36.6895, 21.5382



31.1311, 36.6895, 62.5677



42.0541, 36.6895, 29.7779

Square

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



31.1311, 36.6895, 62.5677



42.0676, 36.6895, 52.1349



38.9018, 36.6895, 23.5668



28.5480, 36.6895, 29.8267

Rectangle

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



31.1311, 36.6895, 62.5677



37.6161, 36.6895, 64.7700



38.9018, 36.6895, 23.5668



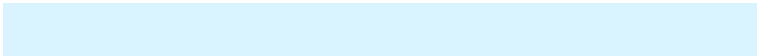
32.2652, 36.6895, 22.4495

Sweetspot

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



31.1323, 36.6909, 62.5686



78.6417, 86.0348, 107.0693



31.2794, 47.6938, 29.6042



16.3890, 18.0267, 22.8657



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.



31.1323, 36.6909, 62.5686



45.8426, 54.6710, 102.7441



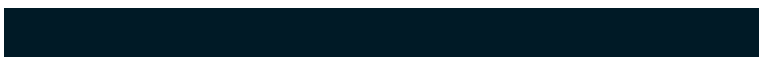
23.3884, 21.2032, 59.9873



11.2349, 12.1102, 14.3157



12.8493, 14.7226, 38.1208



0.7289, 0.8915, 1.9886

Inverse Universe

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



37.1006, 25.3198, 41.9630



57.2540, 35.2678, 62.8220



44.3585, 47.9126, 19.4817



11.5319, 11.3415, 13.3357



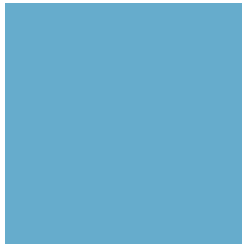
18.6966, 9.2892, 16.6530



0.9978, 0.4925, 1.0345

Previews

White Background



This preview shows how the XYZ color 31.1311, 36.6895, 62.5677 looks on a white background.

Color Contrast Check

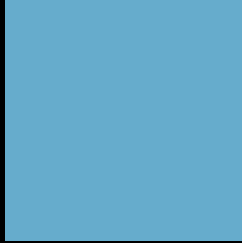
Large Text (above 18pt) WCAG AA × Fail

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 31.1311, 36.6895, 62.5677 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

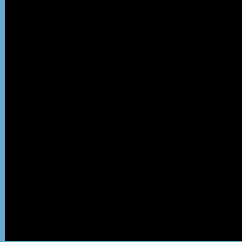
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.1311, 36.6895, 62.5677

Background



This preview shows how black text looks on a background with the XYZ color 31.1311, 36.6895, 62.5677.

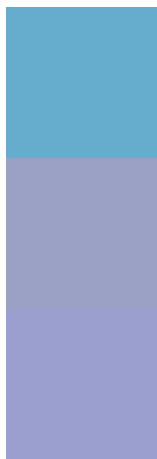


This preview shows how white text looks on a background with the XYZ color 31.1311, 36.6895,

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

31.1311, 36.6895, 62.5677

Protanopia

36.2262, 36.4438, 57.3496

Deuteranopia

37.1782, 36.2698, 64.0728



Tritanopia

29.4450, 36.8755, 53.7099

Trichromacy



Original Color

31.1311, 36.6895, 62.5677

Protanomaly

33.9173, 36.2680, 59.2456

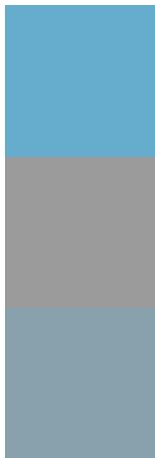
Deuteranomaly

34.5694, 36.2414, 63.5658

Tritanomaly

30.0192, 36.8198, 56.5637

Monochromacy



Original Color

31.1311, 36.6895, 62.5677

Achromatopsia

31.1553, 32.7778, 35.6950

Achromatomaly

30.4410, 33.7411, 44.4434

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1311, 36.6895, 62.5677 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(102, 172, 204)` looks like.

```
.text, #text, p{  
    color:rgb(102, 172, 204)  
}
```

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(102, 172, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 172, 204) }
```

Border

The CSS property to change the border of an element to XYZ 31.1311, 36.6895, 62.5677 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(102, 172, 204) }
```


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

```
.border{ border-color:rgb(102, 172, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 172, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(102, 172, 204); -webkit-box-shadow:4px 4px 4px 4px rgb(102, 172, 204); box-shadow:4px 4px 4px 4px rgb(102, 172, 204) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1311, 36.6895, 62.5677 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 172, 204) }
```

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

```
.background{ background-color: rgb(102,  
172, 204) }
```

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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