

Converting Colors

XYZ(31.2307, 32.1336, 68.8265)

Have a look what the booklet for
XYZ(31.2307, 32.1336, 68.8265)
contains.

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Color

**XYZ(31.1895, 32.0620,
68.8347)**

Conversions

Conversions Part 1

Format	Color
Hex	749BD7
RGB	116, 155, 215
RGB Percent	45%, 61%, 84%
CMY	0.5451, 0.3921, 0.1569
CMYK	0.46, 0.28, 0.00, 0.16
HSL	216°, 55%, 65%
HSV	216°, 46%, 84%
XYZ	31.1895, 32.0620, 68.8347
YIQ	150.1790, -42.5040, 10.3920

Conversions

Conversions Part 2

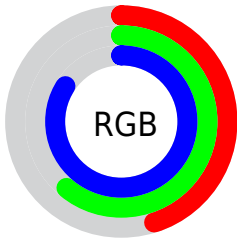
Format	Color
R_{YB}	116, 144, 215
Decimal	7642071
CIE _{Lab}	63.39, 2.66, -34.76
CIE _{LCh}	63, 34.866, 274.372
Yxy	32.0620, 0.2361, 0.2427
Android (android.graphics.Color)	4285832151 (0xFF749BD7)
YUV	150.1790, 31.9568, -29.9750
Hunter-Lab	56.6233, -0.7687, -32.4402

Details

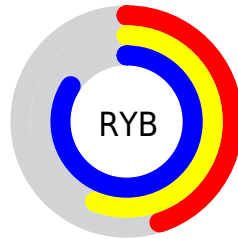
The XYZ color **31.1895, 32.0620, 68.8347** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **46.7030, 46.7598, 23.0882**, and the grayscale version is **28.9478, 30.4554, 33.1659**.

A 20% lighter version of the original color is **57.8637, 61.5916, 103.4464**, and **13.1590, 13.3994, 35.1505** is the 20% darker color. If you saturate the color by 10%, you get **26.6027, 26.6505, 68.0325**, and if you desaturate by 10%, it is **36.6739, 38.2849, 69.7474**.

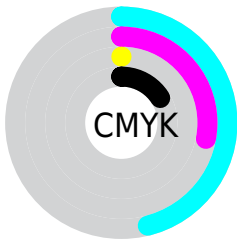
Distribution



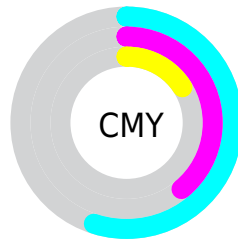
- Red (45%)
- Green (61%)
- Blue (84%)



- Red (45%)
- Yellow (56%)
- Blue (84%)



- Cyan (46%)
- Magenta (28%)
- Yellow (0%)
- Black (16%)



- Cyan (55%)
- Magenta (39%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1895, 32.0620, 68.8347 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 31.1895, 32.0620, 68.8347 by changing the saturation by 10% instead.

■ 31.1895, 32.0620,
68.8347

■ 31.1895, 32.0620,
68.8347

299.2217,
311.4016, 475.1259

■ 20.8957, 21.4089,
50.1062

■ 60.9121, 62.9083,
119.2109

■ 13.1598, 13.4232,
35.1260

■ 81.0717, 83.8702,
151.6957

■ 7.6165, 7.7206,
23.4756

■ 105.2505,
109.0372, 189.6030

■ 3.9002, 3.9167,
14.7365

133.8140,
138.7936, 233.3513

■ 1.6459, 1.6271,
8.4901

167.1275,
173.5238, 283.3592

■ 0.4220, 0.3757,
4.3179

205.5564,

■ 0.0000, 0.0000,

213.6123, 340.0453

1.8013

249.4660,
259.4434, 403.8280

■ 0.0000, 0.0000,
0.4288

■ 0.0000, 0.0000,
0.0000

■ 31.1895, 32.0620,
68.8347

■ 31.1895, 32.0620,
68.8347

■ 26.6027, 26.6505,
68.0325

■ 36.6739, 38.2849,
69.7474

■ 22.8564, 22.0082,
67.3339

■ 43.1015, 45.3512,
70.7726

■ 19.8918, 18.0937,
66.7346

■ 50.5185, 53.2956,
71.9150

■ 17.6398, 14.8593,
66.2290

■ 58.9671, 62.1493,
73.1787

■ 16.0159, 12.2484,
65.8106

■ 68.4867, 71.9421,
74.5672

■ 15.4906, 11.3557,
65.6660

■ 79.1149, 82.7022,
76.0839

■ 86.5271, 92.2089,
77.5282

■ 89.2659, 97.6863,
78.4411

Harmonies

Analogous

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



26.6202, 32.0620, 64.9073



31.1895, 32.0620, 68.8347



36.0407, 32.0620, 61.8810

Triad

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



31.1895, 32.0620, 68.8347



38.8265, 32.0620, 21.9119



22.8238, 32.0620, 24.5965

Complementary

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



31.1895, 32.0620, 68.8347



46.7030, 46.7598, 23.0882

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.



25.5121, 32.0620, 17.1968



31.1895, 32.0620, 68.8347



34.6828, 32.0620, 15.9594

Square

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



31.1895, 32.0620, 68.8347



40.7366, 32.0620, 32.9159



29.7695, 32.0620, 14.4953



22.0983, 32.0620, 36.9832

Rectangle

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



31.1895, 32.0620, 68.8347



38.6890, 32.0620, 52.8688



29.7695, 32.0620, 14.4953



23.5128, 32.0620, 21.5625

Sweetspot

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



31.1906, 32.0632, 68.8355



76.5957, 80.8106, 106.1687



39.2811, 55.4256, 49.3927



15.8449, 16.7157, 22.6413



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.



31.1906, 32.0632, 68.8355



39.4621, 39.5973, 100.1709



27.1017, 21.8263, 67.0751



12.1399, 12.8033, 15.7690



9.3617, 6.9852, 39.3080



0.6441, 0.5803, 2.3974

Inverse Universe

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



40.1871, 29.3055, 34.5499



54.5979, 36.3668, 42.1720



52.6580, 62.8559, 25.8812



12.6238, 12.5010, 13.9593



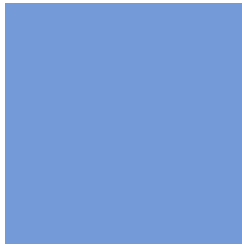
17.7842, 9.0500, 6.1677



1.1128, 0.5619, 0.5833

Previews

White Background



This preview shows how the XYZ color 31.1895, 32.0620, 68.8347 looks on a white background.

Color Contrast Check

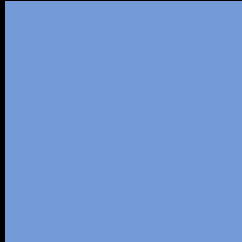
Large Text (above 18pt) WCAG AA × Fail

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 31.1895, 32.0620, 68.8347 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

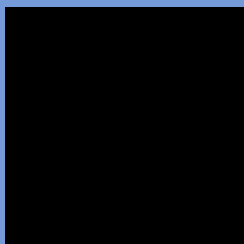
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

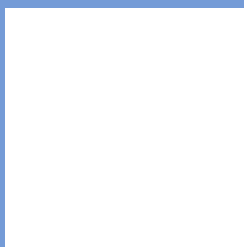
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.1895, 32.0620, 68.8347

Background



This preview shows how black text looks on a background with the XYZ color 31.1895, 32.0620, 68.8347.

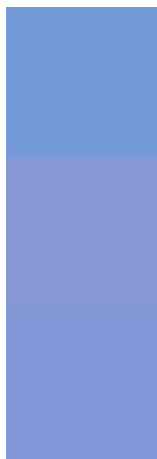


This preview shows how white text looks on a background with the XYZ color 31.1895, 32.0620,

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

31.1895, 32.0620, 68.8347

Protanopia

32.9419, 32.0376, 66.7350

Deuteranopia

32.6672, 31.8369, 69.3891



Tritanopia

26.4657, 31.9183, 45.8403

Trichromacy



Original Color

31.1895, 32.0620, 68.8347

Protanomaly

32.1406, 31.8498, 67.4044

Deuteranomaly

32.0804, 31.7743, 69.4080

Tritanomaly

27.8767, 31.7021, 53.3651

Monochromacy



Original Color

31.1895, 32.0620, 68.8347

Achromatopsia

28.9890, 30.4987, 33.2131

Achromatomaly

29.3495, 30.9157, 44.4649

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1895, 32.0620, 68.8347 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(116, 155, 215)` looks like.

```
.text, #text, p{  
    color:rgb(116, 155, 215)  
}
```

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(116, 155, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 155, 215) }
```

Border

The CSS property to change the border of an element to XYZ 31.1895, 32.0620, 68.8347 is called "border". The border property can be set on classes, ids or directly on the HTML element.

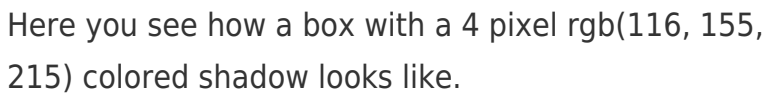
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(116, 155, 215) }
```


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

```
.border{ border-color:rgb(116, 155, 215) }
```

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



Here you see how a box with a 4 pixel `rgb(116, 155, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(116, 155, 215); -webkit-box-shadow:4px 4px 4px 4px rgb(116, 155, 215); box-shadow:4px 4px 4px 4px rgb(116, 155, 215) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1895, 32.0620, 68.8347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 155, 215) }
```

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

```
.background{ background-color: rgb(116,  
155, 215) }
```

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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