

Converting Colors

XYZ(31.1519, 35.2228, 80.9909)

Have a look what the booklet for
XYZ(31.1519, 35.2228, 80.9909)
contains.

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Color

**XYZ(31.0989, 35.1525,
80.7473)**

Conversions

Conversions Part 1

Format	Color
Hex	48A8E7
RGB	72, 168, 231
RGB Percent	28%, 66%, 91%
CMY	0.7176, 0.3412, 0.0941
CMYK	0.69, 0.27, 0.00, 0.09
HSL	204°, 77%, 59%
HSV	204°, 69%, 91%
XYZ	31.0989, 35.1525, 80.7473
YIQ	146.4780, -77.4390, -0.7590

Conversions

Conversions Part 2

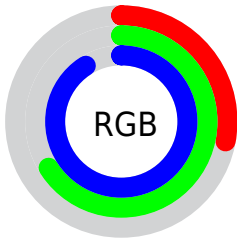
Format	Color
R _Y B	72, 132, 231
Decimal	4761831
CIE Lab	65.87, -8.34, -39.88
CIE LCh	66, 40.743, 258.193
Yxy	35.1525, 0.2116, 0.2391
Android (android.graphics.Color)	4282951911 (0xFF48A8E7)
YUV	146.4780, 41.6693, -65.3172
Hunter-Lab	59.2895, -10.1288, -39.2452

Details

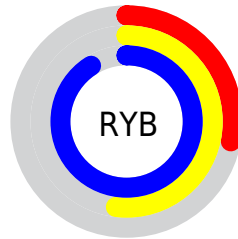
The XYZ color **31.0989, 35.1525, 80.7473** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **42.7905, 34.7874, 10.5919**, and the grayscale version is **27.3763, 28.8020, 31.3654**.

A 20% lighter version of the original color is **54.7542, 65.3137, 104.3287**, and **13.9833, 15.5859, 42.8288** is the 20% darker color. If you saturate the color by 10%, you get **28.0584, 31.1646, 80.1385**, and if you desaturate by 10%, it is **34.9075, 39.7140, 81.4277**.

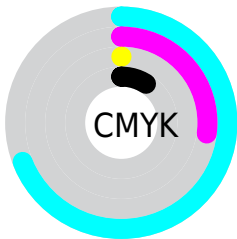
Distribution



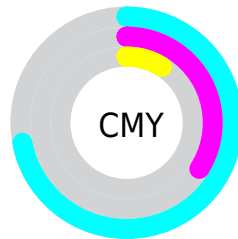
- Red (28%)
- Green (66%)
- Blue (91%)



- Red (28%)
- Yellow (52%)
- Blue (91%)



- Cyan (69%)
- Magenta (27%)
- Yellow (0%)
- Black (9%)



- Cyan (72%)
- Magenta (34%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0989, 35.1525, 80.7473 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 31.0989, 35.1525, 80.7473 by changing the saturation by 10% instead.

■ 31.0989, 35.1525,
80.7473

■ 31.0989, 35.1525,
80.7473

298.8124,
325.2409, 517.2208

■ 20.8264, 23.7804,
59.8037

■ 60.7705, 67.7219,
136.2368

■ 13.1089, 15.1708,
42.8362

■ 80.9003, 89.6881,
171.6197

■ 7.5811, 8.9393,
29.4262

■ 105.0466,
115.9543, 212.6529

■ 3.8776, 4.7016,
19.1551

■ 133.5747,
146.9050, 259.7548

■ 1.6331, 2.0733,
11.6044

166.8500,
182.9247, 313.3440

■ 0.4139, 0.6495,
6.3557

205.2378,

■ 0.0000, 0.0000,

224.3976, 373.8390

2.9903

249.1035,
271.7082, 441.6584

■ 0.0000, 0.0000,
1.0897

■ 0.0000, 0.0000,
0.0000

■ 31.0989, 35.1525,
80.7473

■ 31.0989, 35.1525,
80.7473

■ 28.0584, 31.1646,
80.1385

■ 34.9075, 39.7140,
81.4277

■ 25.7029, 27.7024,
79.5944

■ 39.5477, 44.8838,
82.1810

■ 23.9154, 24.7022,
79.1095

■ 45.0799, 50.6969,
83.0115

■ 23.7246, 24.3709,
79.0556

■ 51.5578, 57.1844,
83.9223

■ 59.0304, 64.3747,
84.9163

■ 67.5430, 72.2942,
85.9963

■ 77.1382, 80.9682,
87.1648

■ 87.1867, 90.0750,
88.3930

■ 89.9680, 95.6377,
89.3201

Harmonies

Analogous

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



26.2752, 35.1525, 68.6770



31.0989, 35.1525, 80.7473



37.1565, 35.1525, 79.1856

Triad

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



31.0989, 35.1525, 80.7473



45.6558, 35.1525, 28.8315



25.5061, 35.1525, 20.1593

Complementary

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



31.0989, 35.1525, 80.7473



42.7905, 34.7874, 10.5919

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.



29.9268, 35.1525, 14.6331



31.0989, 35.1525, 80.7473



41.7352, 35.1525, 18.5041

Square

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



31.0989, 35.1525, 80.7473



46.0679, 35.1525, 45.4653



35.8358, 35.1525, 14.1355



23.3154, 35.1525, 31.8860

Rectangle

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



31.0989, 35.1525, 80.7473



41.0900, 35.1525, 70.6802



35.8358, 35.1525, 14.1355



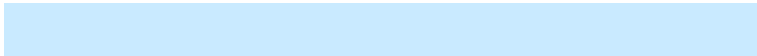
26.7544, 35.1525, 17.6887

Sweetspot

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



31.1002, 35.1537, 80.7482



71.6192, 78.4212, 105.9698



35.4800, 60.2227, 31.9286



14.7638, 16.2437, 22.6072



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.



31.1002, 35.1537, 80.7482



33.6496, 36.9183, 99.9602



20.8006, 14.5546, 77.3150



14.3031, 15.3277, 18.3490



13.4246, 13.9114, 44.3608



1.0821, 1.2081, 3.3081

Inverse Universe

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



42.3414, 24.4523, 39.5350



49.4803, 25.9588, 40.9986



57.7819, 64.7703, 15.5890



14.7406, 14.5134, 16.8344



21.1696, 10.6021, 15.0542



1.6098, 0.8016, 1.3519

Previews

White Background



This preview shows how the XYZ color 31.0989, 35.1525, 80.7473 looks on a white background.

Color Contrast Check

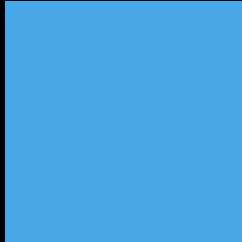
Large Text (above 18pt) WCAG AA × Fail

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 31.0989, 35.1525, 80.7473 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

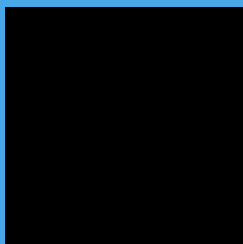
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

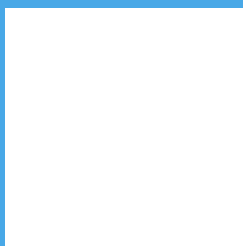
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.0989, 35.1525, 80.7473

Background



This preview shows how black text looks on a background with the XYZ color 31.0989, 35.1525, 80.7473.

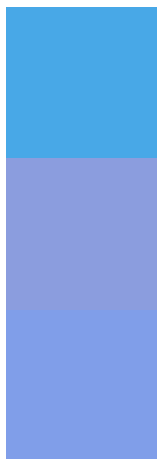


This preview shows how white text looks on a background with the XYZ color 31.0989, 35.1525,

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

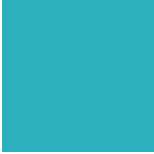
31.0989, 35.1525, 80.7473

Protanopia

35.8892, 34.8768, 73.9476

Deuteranopia

35.8369, 34.9261, 81.9434



Tritanopia

25.8583, 35.3038, 54.1666

Trichromacy



Original Color

31.0989, 35.1525, 80.7473

Protanomaly

33.4057, 34.5708, 76.1463

Deuteranomaly

33.6702, 34.8550, 81.2970

Tritanomaly

27.4843, 35.0792, 63.0800

Monochromacy



Original Color

31.0989, 35.1525, 80.7473

Achromatopsia

27.3213, 28.7441, 31.3023

Achromatomaly

27.0992, 30.2075, 45.9973

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.0989, 35.1525, 80.7473 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(72, 168, 231)` looks like.

```
.text, #text, p{  
    color:rgb(72, 168, 231)  
}
```

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(72, 168, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 168, 231) }
```

Border

The CSS property to change the border of an element to XYZ 31.0989, 35.1525, 80.7473 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(72, 168, 231) }
```


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

```
.border{ border-color:rgb(72, 168, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 168, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 168, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 168, 231);  
box-shadow:4px 4px 4px 4px rgb(72, 168,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 31.0989, 35.1525, 80.7473 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 168, 231) }
```

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

```
.background{ background-color: rgb(72, 168,  
231) }
```

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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