

Converting Colors

XYZ(20.1722, 27.8861,
122.4142)

Have a look what the booklet for
XYZ(20.1722, 27.8861, 122.4142)
contains.

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Color

**XYZ(31.5051, 34.1303,
99.5350)**

Conversions

Conversions Part 1

Format	Color
Hex	00A5FF
RGB	0, 165, 255
RGB Percent	0%, 65%, 100%
CMY	0.9997, 0.3529, 0.0000
CMYK	1.00, 0.35, 0.00, 0.00
HSL	201°, 100%, 50%
HSV	201°, 100%, 100%
XYZ	31.5051, 34.1303, 99.5350
YIQ	125.9250, -127.2300, -6.9900

Conversions

Conversions Part 2

Format	Color
R _{YB}	0, 100, 255
Decimal	42495
CIE _{Lab}	65.07, -3.39, -54.34
CIE _{LCh}	65, 54.441, 266.431
Y _{xy}	34.1303, 0.1907, 0.2066
Android (android.graphics.Color)	4278232575 (0xFF00A5FF)
YUV	125.9250, 63.6340, -110.4362
Hunter-Lab	58.4211, -5.9763, -60.1205

Details

The XYZ color **31.5051, 34.1303, 99.5350** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **44.9025, 28.5843, 3.1528**, and the grayscale version is **19.6352, 20.6578, 22.4963**.

A 20% lighter version of the original color is **50.3253, 61.8511, 103.8938**, and **16.2104, 16.1118, 55.6816** is the 20% darker color. If you saturate the color by 10%, you get **31.5009, 34.1217, 99.5336**, and if you desaturate by 10%, it is **33.6020, 37.7077, 100.1150**.

Distribution



- Red (0%)
- Green (65%)
- Blue (100%)



- Red (0%)
- Yellow (39%)
- Blue (100%)



- Cyan (100%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (35%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5051, 34.1303, 99.5350 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 31.5051, 34.1303, 99.5350 by changing the saturation by 10% instead.

■ 31.5051, 34.1303,
99.5350

■ 31.5051, 34.1303,
99.5350

300.6441,
320.7127, 579.9348

■ 21.1375, 22.9937,
75.2975

■ 61.4049, 66.1362,
162.5643

■ 13.3376, 14.5889,
55.3535

■ 81.6677, 87.7744,
202.1933

■ 7.7400, 8.5314,
39.2843

■ 105.9597,
113.6819, 247.7898

■ 3.9794, 4.4368,
26.6714

■ 134.6462,
144.2430, 299.7724

■ 1.6905, 1.9208,
17.0964

■ 168.0926,
179.8423, 358.5596

■ 0.4503, 0.5608,
10.1405

206.6641,

■ 0.0000, 0.0000,

220.8641, 424.5701

5.3854

250.7261,
267.6927, 498.2223

■ 0.0000, 0.0000,
2.4125

■ 0.0000, 0.0000,
0.7932

■ 31.5051, 34.1303,
99.5350

■ 31.5051, 34.1303,
99.5350

■ 31.5009, 34.1217,
99.5336

■ 33.6020, 37.7077,
100.1150

■ 36.3537, 41.7953,
100.7590

■ 39.9277, 46.4831,
101.4755

■ 44.4269, 51.8274,
102.2699

■ 49.9377, 57.8759,
103.1469

■ 56.5361, 64.6706,
104.1106

■ 64.2900, 72.2496,
105.1649

■ 73.2617, 80.6478,
106.3130

■ 83.5086, 89.8977,
107.5584

Harmonies

Analogous

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



24.7573, 34.1303, 86.3580



31.5051, 34.1303, 99.5350



39.6680, 34.1303, 91.1878

Triad

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



31.5051, 34.1303, 99.5350



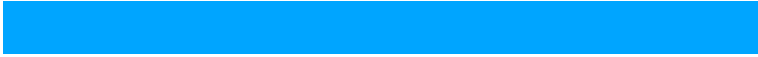
48.0000, 34.1303, 20.9903



21.3751, 34.1303, 17.9509

Complementary

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



31.5051, 34.1303, 99.5350



44.9025, 28.5843, 3.1528

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.



26.1478, 34.1303, 10.2626



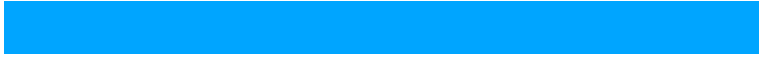
31.5051, 34.1303, 99.5350



41.5669, 34.1303, 11.4521

Square

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



31.5051, 34.1303, 99.5350



50.0484, 34.1303, 39.9313



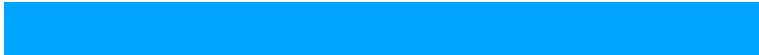
33.3929, 34.1303, 8.4869



19.5378, 34.1303, 34.5240

Rectangle

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



31.5051, 34.1303, 99.5350



44.7128, 34.1303, 75.8456



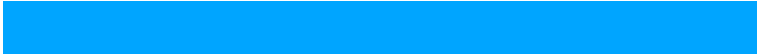
33.3929, 34.1303, 8.4869



22.6472, 34.1303, 14.5484

Sweetspot

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



31.5063, 34.1313, 99.5352



64.2665, 72.2271, 105.1618



37.5766, 72.2467, 21.4812



13.0252, 14.7549, 22.4114



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.



31.5063, 34.1313, 99.5352



31.5009, 34.1217, 99.5336



18.7540, 8.6267, 95.2844



17.9837, 19.3389, 23.0349



16.6056, 18.1209, 52.0571



1.7197, 1.9701, 5.1029

Inverse Universe

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



48.0325, 23.9782, 37.6947



48.0294, 23.9757, 37.6823



65.9916, 70.7626, 10.1825



18.5044, 18.1851, 21.2733



25.1700, 12.5573, 20.0773



2.5026, 1.2434, 2.2283

Previews

White Background



This preview shows how the XYZ color 31.5051, 34.1303, 99.5350 looks on a white background.

Color Contrast Check

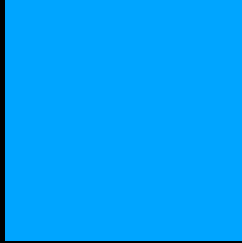
Large Text (above 18pt) WCAG AA × Fail

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 31.5051, 34.1303, 99.5350 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

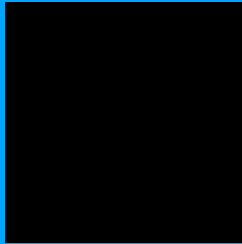
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

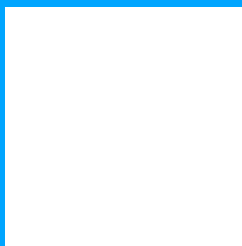
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.5051, 34.1303, 99.5350

Background



This preview shows how black text looks on a background with the XYZ color 31.5051, 34.1303, 99.5350.



This preview shows how white text looks on a background with the XYZ color 31.5051, 34.1303,

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

31.5051, 34.1303, 99.5350

Protanopia

36.2054, 33.9147, 91.0242

Deuteranopia

35.1007, 34.1605, 99.3514



Tritanopia

24.1057, 33.8600, 52.2788

Trichromacy



Original Color

31.5051, 34.1303, 99.5350

Protanomaly

32.4676, 32.9130, 94.2641

Deuteranomaly

32.7193, 33.7018, 99.3884

Tritanomaly

26.4466, 33.8793, 67.4328

Monochromacy



Original Color

31.5051, 34.1303, 99.5350

Achromatopsia

19.8309, 20.8637, 22.7206

Achromatomaly

20.2292, 23.4788, 43.0008

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.5051, 34.1303, 99.5350 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(0, 165, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 165, 255)  
}
```

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(0, 165, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 165, 255) }
```

Border

The CSS property to change the border of an element to XYZ 31.5051, 34.1303, 99.5350 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(0, 165, 255) }
```


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

```
.border{ border-color:rgb(0, 165, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 165, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 165, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 165, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 165,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 31.5051, 34.1303, 99.5350 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 165, 255) }
```

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

```
.background{ background-color: rgb(0, 165,  
255) }
```

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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