

# Converting Colors

XYZ(12.3132, 22.1570,  
121.9818)

Have a look what the booklet for  
XYZ(12.3132, 22.1570, 121.9818)  
contains.

<b>XYZ(30.4481, 32.0163, 99.1827)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(30.4481, 32.0163,  
99.1827)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009FFF
RGB	0, 159, 255
RGB Percent	0%, 62%, 100%
CMY	0.9997, 0.3765, 0.0000
CMYK	1.00, 0.38, 0.00, 0.00
HSL	203°, 100%, 50%
HSV	203°, 100%, 100%
XYZ	30.4481, 32.0163, 99.1827
YIQ	122.4030, -125.5800, -3.8520

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 98, 255
Decimal	40959
CIELab	63.36, 0.07, -57.05
CIElCh	63, 57.054, 270.066
Yxy	32.0163, 0.1884, 0.1981
Android (android.graphics.Color)	4278231039 (0xFF009FFF)
YUV	122.4030, 65.3703, -107.3474
Hunter-Lab	56.5829, -2.9667, -64.3198

# Details

The XYZ color **30.4481, 32.0163, 99.1827** 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 **45.4296, 29.6386, 3.3285**, and the grayscale version is **18.4600, 19.4214, 21.1499**.

A 20% lighter version of the original color is **48.5263, 58.2532, 103.2941**, and **15.5556, 14.8023, 55.4633** is the 20% darker color. If you saturate the color by 10%, you get **30.4438, 32.0075, 99.1813**, and if you desaturate by 10%, it is **32.5795, 35.6628, 99.7742**.

# Distribution



- Red (0%)
- Green (62%)
- Blue (100%)



- Red (0%)
- Yellow (38%)
- Blue (100%)



- Cyan (100%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (38%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.4481, 32.0163, 99.1827 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 30.4481, 32.0163, 99.1827 by changing the saturation by 10% instead.



■ 30.4481, 32.0163,  
99.1827

■ 30.4481, 32.0163,  
99.1827

295.8601,  
311.1935, 578.7934

■ 20.3287, 21.3739,  
75.0051

■ 59.7519, 62.8366,  
162.0756

■ 12.7439, 13.3976,  
55.1153

■ 79.6670, 83.7834,  
201.6280

■ 7.3282, 7.7029,  
39.0948

■ 103.5780,  
108.9338, 247.1424

■ 3.7163, 3.9054,  
26.5251

■ 131.8504,  
138.6722, 299.0374

■ 1.5429, 1.6208,  
16.9876

■ 164.8494,  
173.3829, 357.7314

■ 0.3548, 0.3716,  
10.0638

202.9405,

■ 0.0000, 0.0000,

213.4505, 423.6431

5.3351

246.4889,  
259.2592, 497.1909

■ 0.0000, 0.0000,  
2.3830

■ 0.0000, 0.0000,  
0.7772

■ 30.4481, 32.0163,  
99.1827

■ 30.4481, 32.0163,  
99.1827

■ 30.4438, 32.0075,  
99.1813

■ 32.5795, 35.6628,  
99.7742

■ 35.3803, 39.8487,  
100.4346

■ 39.0185, 44.6649,  
101.1724

■ 43.5974, 50.1686,  
101.9934

■ 49.2040, 56.4085,  
102.9023

■ 55.9145, 63.4276,  
103.9035

■ 63.7975, 71.2647,  
105.0007

■ 72.9155, 79.9557,  
106.1977

■ 83.3266, 89.5340,  
107.4977

# Harmonies

## Analogous

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



23.4470, 32.0163, 87.9546



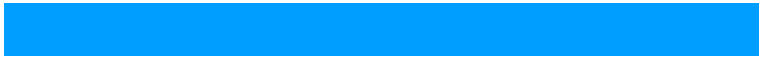
30.4481, 32.0163, 99.1827



38.7146, 32.0163, 87.8614

# Triad

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



30.4481, 32.0163, 99.1827



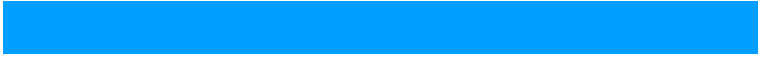
45.6028, 32.0163, 17.2585



19.0501, 32.0163, 17.3131

# Complementary

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



30.4481, 32.0163, 99.1827



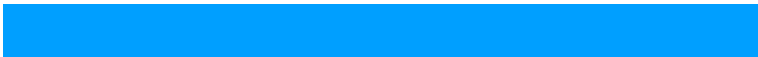
45.4296, 29.6386, 3.3285

# 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.



23.4214, 32.0163, 9.1005



30.4481, 32.0163, 99.1827



38.6789, 32.0163, 9.0799

# Square

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



30.4481, 32.0163, 99.1827



48.3389, 32.0163, 34.8100



30.4130, 32.0163, 6.9079



17.6019, 32.0163, 34.9106



# Rectangle

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



30.4481, 32.0163, 99.1827



43.6636, 32.0163, 71.0151



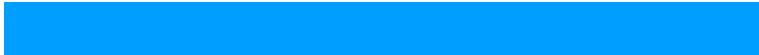
30.4130, 32.0163, 6.9079



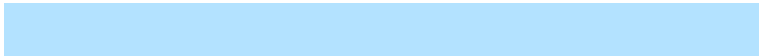
20.1842, 32.0163, 13.6915

# Sweetspot

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



30.4493, 32.0172, 99.1828



63.7737, 71.2416, 104.9975



37.7609, 72.3205, 22.4520



12.9076, 14.5197, 22.3722



0.0000, 0.0000, 0.0000

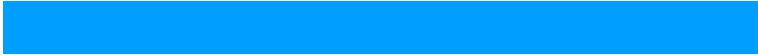


20.3446, 21.4041, 23.3091

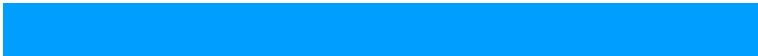


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



30.4493, 32.0172, 99.1828



30.4438, 32.0075, 99.1813



18.6247, 8.3680, 95.2413



17.9465, 19.2646, 23.0225



16.0559, 17.0213, 51.8738



1.6685, 1.8677, 5.0858



# Inverse Universe

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



47.4989, 23.7648, 34.8851



47.4958, 23.7623, 34.8726



67.0993, 72.9781, 10.5517



18.4856, 18.1776, 21.1745



24.8925, 12.4463, 18.6160



2.4768, 1.2331, 2.0922



# Previews

## White Background



This preview shows how the XYZ color 30.4481, 32.0163, 99.1827 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

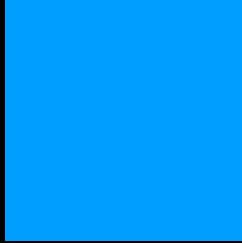
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.4481, 32.0163, 99.1827 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

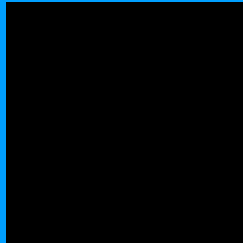
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

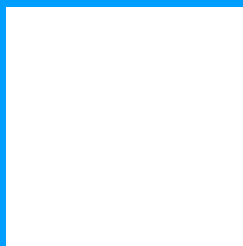
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 30.4481, 32.0163, 99.1827**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.4481, 32.0163, 99.1827.



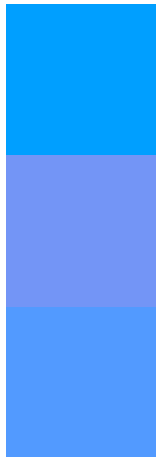
This preview shows how white text looks on a background with the XYZ color 30.4481, 32.0163,



# 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

30.4481, 32.0163, 99.1827

### Protanopia

34.4522, 31.7936, 91.5097

### Deuteranopia

33.0853, 32.1250, 99.0647



## Tritanopia

22.5285, 31.7121, 48.6497

# Trichromacy



## Original Color

30.4481, 32.0163, 99.1827

## Protanomaly

31.2378, 31.0385, 93.9672

## Deuteranomaly

31.3546, 31.7270, 99.0791

## Tritanomaly

24.8403, 31.4643, 64.4385

# Monochromacy



## Original Color

30.4481, 32.0163, 99.1827

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

19.0616, 21.8499, 41.2430

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.4481, 32.0163, 99.1827 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, 159, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 159, 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, 159, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 159, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 30.4481, 32.0163, 99.1827 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, 159, 255) }
```



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

```
.border{ border-color:rgb(0, 159, 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, 159, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 159, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 159, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 159,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.4481, 32.0163, 99.1827 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 159, 255) }
```

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

```
.background{ background-color: rgb(0, 159,  
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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