

# Converting Colors

XYZ(28.6759, 28.4719, 98.5920)

Have a look what the booklet for  
XYZ(28.6759, 28.4719, 98.5920)  
contains.

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# Color

**XYZ(28.6399, 28.3998,  
98.5800)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0094FF
RGB	0, 148, 255
RGB Percent	0%, 58%, 100%
CMY	0.9997, 0.4196, 0.0000
CMYK	1.00, 0.42, 0.00, 0.00
HSL	205°, 100%, 50%
HSV	205°, 100%, 100%
XYZ	28.6399, 28.3998, 98.5800
YIQ	115.9460, -122.5550, 1.9010

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 94, 255
Decimal	38143
CIE Lab	60.25, 6.55, -62.02
CIE LCh	60, 62.364, 276.030
Yxy	28.3998, 0.1840, 0.1825
Android (android.graphics.Color)	4278228223 (0xFF0094FF)
YUV	115.9460, 68.5536, -101.6846
Hunter-Lab	53.2915, 2.6694, -72.3722

# Details

The XYZ color **28.6399, 28.3998, 98.5800** is a dark color, and the websafe version is hex **3399FF**. The color can be described as middle saturated azure. A complement of this color would be **46.5059, 31.7912, 3.6874**, and the grayscale version is **16.4149, 17.2698, 18.8068**.

A 20% lighter version of the original color is **45.6187, 52.4380, 102.3249**, and **14.5607, 12.8126, 55.1317** is the 20% darker color. If you saturate the color by 10%, you get **28.6351, 28.3901, 98.5784**, and if you desaturate by 10%, it is **30.8125, 32.1286, 99.1852**.

# Distribution



- Red (0%)
- Green (58%)
- Blue (100%)



- Red (0%)
- Yellow (37%)
- Blue (100%)



- Cyan (100%)
- Magenta (42%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (42%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.6399, 28.3998, 98.5800 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 28.6399, 28.3998, 98.5800 by changing the saturation by 10% instead.



■ 28.6399, 28.3998,  
98.5800

■ 28.6399, 28.3998,  
98.5800

287.5370,  
294.3724, 576.8381

■ 18.9515, 18.6273,  
74.5049

■ 56.9060, 57.1221,  
161.2392

■ 11.7390, 11.4013,  
54.7081

■ 76.2144, 76.8407,  
200.6604

■ 6.6372, 6.3374,  
38.7710

■ 99.4602, 100.6433,  
246.0341

■ 3.2805, 3.0513,  
26.2752

■ 127.0087,  
128.9145, 297.7788

■ 1.3038, 1.1586,  
16.8020

■ 159.2252,  
162.0386, 356.3129

■ 0.1861, 0.0275,  
9.9330

196.4753,

■ 0.0000, 0.0000,

200.4001, 422.0552

5.2495

239.1241,  
244.3832, 495.4241

■ 0.0000, 0.0000,  
2.3331

■ 0.0000, 0.0000,  
0.7497

■ 28.6399, 28.3998,  
98.5800

■ 28.6399, 28.3998,  
98.5800

■ 28.6351, 28.3901,  
98.5784

■ 30.8125, 32.1286,  
99.1852

■ 33.6829, 36.4534,  
99.8687

■ 37.4200, 41.4672,  
100.6395

■ 42.1282, 47.2294,  
101.5035

■ 47.8956, 53.7908,  
102.4660

■ 54.7996, 61.1964,  
103.5316

■ 62.9095, 69.4872,  
104.7044

■ 72.2890, 78.7008,  
105.9885

■ 82.9968, 88.8722,  
107.3874

# Harmonies

## Analogous

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



21.2195, 28.3998, 91.0853



28.6399, 28.3998, 98.5800



37.0782, 28.3998, 81.9114

# Triad

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



28.6399, 28.3998, 98.5800



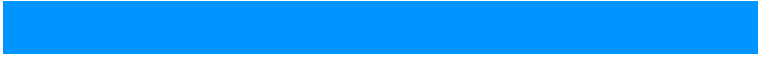
41.4244, 28.3998, 11.5879



15.2459, 28.3998, 16.2685

# Complementary

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



28.6399, 28.3998, 98.5800



46.5059, 31.7912, 3.6874

# 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.



18.9258, 28.3998, 7.2407



28.6399, 28.3998, 98.5800



33.7293, 28.3998, 5.6225

# Square

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



28.6399, 28.3998, 98.5800



45.3394, 28.3998, 26.5258



25.4108, 28.3998, 4.5579

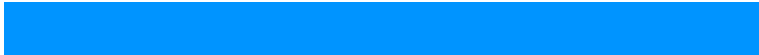


14.4142, 28.3998, 35.7802



# Rectangle

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



28.6399, 28.3998, 98.5800



41.8476, 28.3998, 62.6057



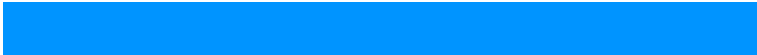
25.4108, 28.3998, 4.5579



16.1497, 28.3998, 12.2750

# Sweetspot

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



28.6410, 28.4006, 98.5801



62.8835, 69.4612, 104.7008



38.3778, 72.5672, 25.7002



12.6958, 14.0960, 22.3016



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.



28.6410, 28.4006, 98.5801



28.6351, 28.3901, 98.5784



18.3250, 7.7686, 95.1414



17.8786, 19.1288, 22.9999



15.1134, 15.1364, 51.5596



1.5796, 1.6900, 5.0562



# Inverse Universe

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



46.5862, 23.3998, 30.0786



46.5828, 23.3971, 30.0651



70.5939, 79.9671, 11.7167



18.4514, 18.1639, 20.9941



24.4168, 12.2560, 16.1110



2.4319, 1.2151, 1.8560



# Previews

## White Background



This preview shows how the XYZ color 28.6399, 28.3998, 98.5800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

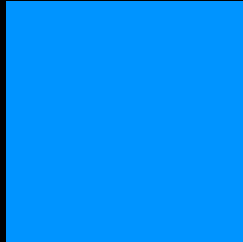
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.6399, 28.3998, 98.5800 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

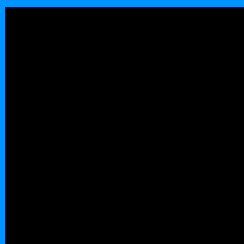
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

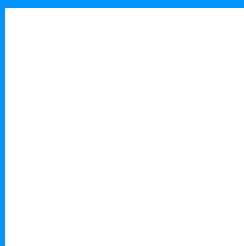
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.6399, 28.3998, 98.5800**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.6399, 28.3998, 98.5800.



This preview shows how white text looks on a background with the XYZ color 28.6399, 28.3998,



# 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

28.6399, 28.3998, 98.5800

### Protanopia

31.3979, 28.3685, 92.6277

### Deuteranopia

29.4111, 28.3357, 98.5269



## Tritanopia

19.9215, 28.0819, 42.8985

# Trichromacy



## Original Color

28.6399, 28.3998, 98.5800

## Protanomaly

29.3725, 27.9357, 95.1108

## Deuteranomaly

28.9904, 28.3486, 98.5516

## Tritanomaly

22.5491, 28.0412, 60.1011

# Monochromacy



## Original Color

28.6399, 28.3998, 98.5800

## Achromatopsia

16.6002, 17.4647, 19.0191

## Achromatomaly

17.5183, 19.6842, 39.4353

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.6399, 28.3998, 98.5800 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, 148, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 148, 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, 148, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 148, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 28.6399, 28.3998, 98.5800 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, 148, 255) }
```



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

```
.border{ border-color:rgb(0, 148, 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, 148, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 148, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 148, 255); box-shadow:4px 4px 4px 4px rgb(0, 148, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.6399, 28.3998, 98.5800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 148, 255) }
```

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

```
.background{ background-color: rgb(0, 148,  
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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