

# Converting Colors

XYZ(13.2837, 19.4209,  
107.4292)

Have a look what the booklet for  
XYZ(13.2837, 19.4209, 107.4292)  
contains.

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# Color

**XYZ(28.0233, 27.1665,  
98.3744)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0090FF
RGB	0, 144, 255
RGB Percent	0%, 56%, 100%
CMY	0.9997, 0.4353, 0.0000
CMYK	1.00, 0.44, 0.00, 0.00
HSL	206°, 100%, 50%
HSV	206°, 100%, 100%
XYZ	28.0233, 27.1665, 98.3744
YIQ	113.5980, -121.4550, 3.9930

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 92, 255
Decimal	37119
CIE Lab	59.13, 8.96, -63.82
CIE LCh	59, 64.441, 277.989
Yxy	27.1665, 0.1825, 0.1769
Android (android.graphics.Color)	4278227199 (0xFF0090FF)
YUV	113.5980, 69.7112, -99.6254
Hunter-Lab	52.1215, 4.7585, -75.4192

# Details

The XYZ color **28.0233, 27.1665, 98.3744** 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 **46.9338, 32.6468, 3.8301**, and the grayscale version is **15.7062, 16.5241, 17.9948**.

A 20% lighter version of the original color is **44.6983, 50.5972, 102.0181**, and **14.1703, 12.2156, 54.4343** is the 20% darker color. If you saturate the color by 10%, you get **28.0179, 27.1559, 98.3726**, and if you desaturate by 10%, it is **30.2041, 30.9115, 98.9823**.

# Distribution



- Red (0%)
- Green (56%)
- Blue (100%)



- Red (0%)
- Yellow (36%)
- Blue (100%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.0233, 27.1665, 98.3744 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 28.0233, 27.1665, 98.3744 by changing the saturation by 10% instead.



■ 28.0233, 27.1665,  
98.3744

■ 28.0233, 27.1665,  
98.3744

284.6563,  
288.4624, 576.1703

■ 18.4838, 17.6983,  
74.3343

■ 55.9300, 55.1509,  
160.9538

■ 11.3996, 10.7336,  
54.5693

■ 75.0279, 74.4360,  
200.3302

■ 6.4056, 5.8880,  
38.6607

■ 98.0427, 97.7621,  
245.6557

■ 3.1362, 2.7771,  
26.1901

■ 125.3396,  
125.5136, 297.3490

■ 1.2262, 1.0165,  
16.7389

■ 157.2841,  
158.0750, 355.8286

■ 0.1269, 0.0000,  
9.8885

194.2414,

■ 0.0000, 0.0000,

195.8307, 421.5130

5.2204

236.5771,  
239.1650, 494.8207

■ 0.0000, 0.0000,  
2.3162

■ 0.0000, 0.0000,  
0.7403

■ 28.0233, 27.1665,  
98.3744

■ 28.0233, 27.1665,  
98.3744

■ 28.0179, 27.1559,  
98.3726

■ 30.2041, 30.9115,  
98.9823

■ 33.0934, 35.2739,  
99.6721

■ 36.8606, 40.3478,  
100.4529

■ 41.6107, 46.1934,  
101.3308

■ 47.4322, 52.8625,  
102.3113

■ 54.4027, 60.4010,  
103.3990

■ 62.5922, 68.8506,  
104.5983

■ 72.0647, 78.2498,  
105.9132

■ 82.8794, 88.6345,  
107.3477

# Harmonies

## Analogous

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



20.4639, 27.1665, 92.2900



28.0233, 27.1665, 98.3744



36.5187, 27.1665, 79.7983

# Triad

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



28.0233, 27.1665, 98.3744



39.9748, 27.1665, 9.8779



14.0040, 27.1665, 15.9275

# Complementary

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



28.0233, 27.1665, 98.3744



46.9338, 32.6468, 3.8301

# 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.



17.4475, 27.1665, 6.6453



28.0233, 27.1665, 98.3744



32.0397, 27.1665, 4.6258

# Square

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



28.0233, 27.1665, 98.3744



44.2922, 27.1665, 23.8581



23.7371, 27.1665, 3.8626

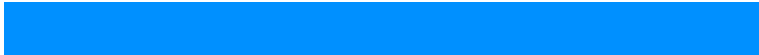


13.3663, 27.1665, 36.1499



# Rectangle

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



28.0233, 27.1665, 98.3744



41.2218, 27.1665, 59.6947



23.7371, 27.1665, 3.8626



14.8314, 27.1665, 11.8070

# Sweetspot

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



28.0244, 27.1672, 98.3745



62.5639, 68.8220, 104.5942



38.6053, 72.6583, 26.8981



12.6198, 13.9442, 22.2763



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.



28.0244, 27.1672, 98.3745



28.0179, 27.1559, 98.3726



18.2527, 7.6238, 95.1173



17.8540, 19.0796, 22.9917



14.7913, 14.4922, 51.4523



1.5489, 1.6285, 5.0460



# Inverse Universe

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



46.2750, 23.2754, 28.4394



46.2714, 23.2725, 28.4248



71.8166, 82.4124, 12.1244



18.4390, 18.1589, 20.9287



24.2542, 12.1910, 15.2548



2.4164, 1.2089, 1.7744



# Previews

## White Background



This preview shows how the XYZ color 28.0233, 27.1665, 98.3744 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

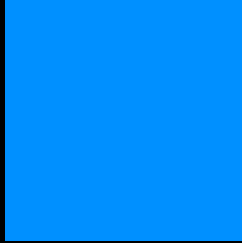
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.0233, 27.1665, 98.3744 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

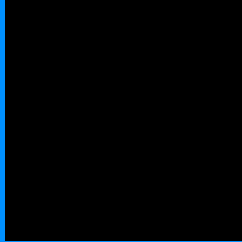
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

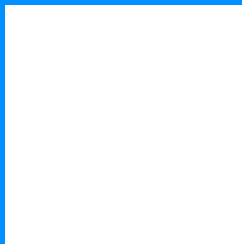
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 28.0233, 27.1665, 98.3744

## Background



This preview shows how black text looks on a background with the XYZ color 28.0233, 27.1665, 98.3744.



This preview shows how white text looks on a background with the XYZ color 28.0233, 27.1665,



# 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

28.0233, 27.1665, 98.3744

### Protanopia

30.4038, 27.1902, 93.2683

### Deuteranopia

28.1892, 27.2521, 98.3822



## Tritanopia

19.1249, 26.9411, 41.2380

# Trichromacy



**Original Color**

28.0233, 27.1665, 98.3744

**Protanomaly**

28.4780, 26.5911, 94.8984

**Deuteranomaly**

28.1234, 27.2181, 98.3791

**Tritanomaly**

21.6536, 26.6266, 58.6418

# Monochromacy



**Original Color**

28.0233, 27.1665, 98.3744

**Achromatopsia**

15.9940, 16.8269, 18.3245

**Achromatomaly**

16.8728, 18.8003, 38.3368

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.0233, 27.1665, 98.3744 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, 144, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 144, 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, 144, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 144, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 28.0233, 27.1665, 98.3744 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, 144, 255) }
```



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

```
.border{ border-color:rgb(0, 144, 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, 144, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 144, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 144, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 144,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.0233, 27.1665, 98.3744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 144, 255) }
```

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

```
.background{ background-color: rgb(0, 144,  
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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