

# Converting Colors

XYZ(18.1932, 15.7325,  
135.8925)

Have a look what the booklet for  
XYZ(18.1932, 15.7325, 135.8925)  
contains.

<b>XYZ(24.2954, 19.7108, 97.1318)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	30

# Color

**XYZ(24.2954, 19.7108,  
97.1318)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0074FF
RGB	0, 116, 255
RGB Percent	0%, 45%, 100%
CMY	0.9997, 0.5451, 0.0000
CMYK	1.00, 0.55, 0.00, 0.00
HSL	213°, 100%, 50%
HSV	213°, 100%, 100%
XYZ	24.2954, 19.7108, 97.1318
YIQ	97.1620, -113.7550, 18.6370

# Conversions

## Conversions Part 2

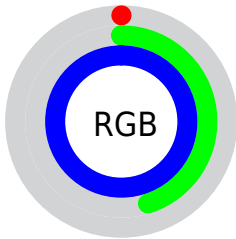
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	0, 80, 255
Decimal	29951
CIE Lab	51.51, 26.34, -76.14
CIE LCh	52, 80.561, 289.081
Yxy	19.7108, 0.1721, 0.1397
Android (android.graphics.Color)	4278220031 (0xFF0074FF)
YUV	97.1620, 77.8141, -85.2111
Hunter-Lab	44.3968, 19.9865, -98.6374

# Details

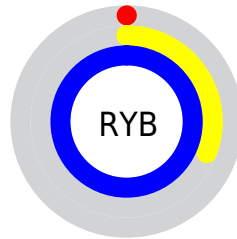
The XYZ color **24.2954, 19.7108, 97.1318** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark saturated azure. A complement of this color would be **50.4841, 39.7476, 5.0134**, and the grayscale version is **11.2428, 11.8283, 12.8810**.

A 20% lighter version of the original color is **38.6788, 38.3681, 99.9749**, and **12.2062, 8.2875, 53.7796** is the 20% darker color. If you saturate the color by 10%, you get **24.2906, 19.7011, 97.1302**, and if you desaturate by 10%, it is **26.4351, 23.3738, 97.7261**.

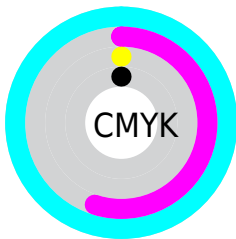
# Distribution



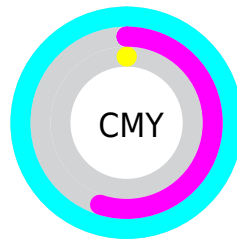
- Red (0%)
- Green (45%)
- Blue (100%)



- Red (0%)
- Yellow (31%)
- Blue (100%)



- Cyan (100%)
- Magenta (55%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (55%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2954, 19.7108, 97.1318 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 24.2954, 19.7108, 97.1318 by changing the saturation by 10% instead.



■ 24.2954, 19.7108,  
97.1318

■ 24.2954, 19.7108,  
97.1318

266.7234,  
250.3452, 572.1252

■ 15.6788, 12.1850,  
73.3039

■ 49.9630, 42.9318,  
159.2273

■ 9.3866, 6.8698,  
53.7311

■ 67.7447, 59.3958,  
198.3320

■ 5.0533, 3.3808,  
37.9950

■ 89.3122, 79.6079,  
243.3660

■ 2.3136, 1.3336,  
25.6770

■ 115.0308,  
103.9526, 294.7479

■ 0.8016, 0.1670,  
16.3586

■ 145.2658,  
132.8143, 352.8963

■ 0.0000, 0.0000,  
9.6212

180.3827,

■ 0.0000, 0.0000,

166.5774, 418.2296

5.0462

220.7468,  
205.6262, 491.1663

■ 0.0000, 0.0000,  
2.2152

■ 0.0000, 0.0000,  
0.6831

■ 24.2954, 19.7108,  
97.1318

■ 24.2954, 19.7108,  
97.1318

■ 24.2906, 19.7011,  
97.1302

■ 26.4351, 23.3738,  
97.7261

■ 29.3633, 27.8142,  
98.4288

■ 33.2543, 33.1359,  
99.2509

■ 38.2178, 39.4085,  
100.2001

■ 44.3466, 46.6926,  
101.2830

■ 51.7226, 55.0424,  
102.5059

■ 60.4197, 64.5075,  
103.8745

■ 70.5057, 75.1340,  
105.3940

■ 82.0433, 86.9650,  
107.0695

# Harmonies

## Analogous

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



15.9388, 19.7108, 101.6926



24.2954, 19.7108, 97.1318



33.1237, 19.7108, 65.8833

# Triad

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



24.2954, 19.7108, 97.1318



30.8864, 19.7108, 2.3292



7.2330, 19.7108, 14.0785

# Complementary

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



24.2954, 19.7108, 97.1318



50.4841, 39.7476, 5.0134

# 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.



9.2649, 19.7108, 3.5058



24.2954, 19.7108, 97.1318



21.8394, 19.7108, 0.6785

# Square

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



24.2954, 19.7108, 97.1318



37.6232, 19.7108, 9.9415



14.0944, 19.7108, 0.8860



7.5411, 19.7108, 39.5741



# Rectangle

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



24.2954, 19.7108, 97.1318



37.3519, 19.7108, 41.6296



14.0944, 19.7108, 0.8860



7.6346, 19.7108, 9.1584

# Sweetspot

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



24.2963, 19.7112, 97.1318



60.3917, 64.4775, 103.8702



40.2074, 73.2991, 35.3348



12.1064, 12.9172, 22.1051



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.



24.2963, 19.7112, 97.1318



24.2906, 19.7011, 97.1302



18.1581, 7.2770, 95.0553



17.6834, 18.7384, 22.9348



12.8372, 10.5839, 50.8009



1.3574, 1.2455, 4.9821



# Inverse Universe

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



44.3932, 22.5226, 18.5304



44.3900, 22.5200, 18.5174



73.9430, 91.2040, 13.7091



18.3528, 18.1244, 20.4752



23.2678, 11.7964, 10.0607



2.3198, 1.1703, 1.2653



# Previews

## White Background



This preview shows how the XYZ color 24.2954, 19.7108, 97.1318 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

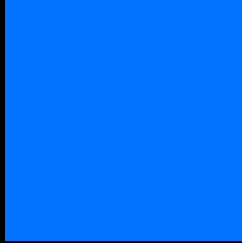
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 24.2954, 19.7108, 97.1318 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

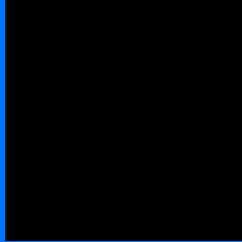
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

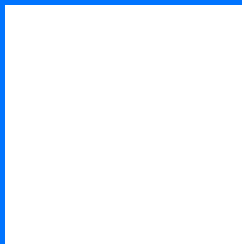
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 24.2954, 19.7108, 97.1318**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2954, 19.7108, 97.1318.



This preview shows how white text looks on a background with the XYZ color 24.2954, 19.7108,



# 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

24.2954, 19.7108, 97.1318

### Protanopia

23.6166, 19.6247, 92.9857

### Deuteranopia

19.5994, 19.5735, 67.0351

# Trichromacy



## Original Color

24.2954, 19.7108, 97.1318

## Protanomaly

23.9320, 19.7509, 94.6464

## Deuteranomaly

21.2425, 19.6322, 77.5327

# Monochromacy



## Original Color

24.2954, 19.7108, 97.1318

## Achromatopsia

11.3621, 11.9538, 13.0177

## Achromatomaly

12.7697, 13.2579, 32.4578

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2954, 19.7108, 97.1318 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, 116, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 116, 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, 116, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 116, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2954, 19.7108, 97.1318 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, 116, 255) }
```

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

```
.border{ border-color:rgb(0, 116, 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, 116, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 116, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 116, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 116,  
255) }
```



# Background

The CSS property to change the background color of an element to XYZ 24.2954, 19.7108, 97.1318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 116, 255) }
```

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

```
.background{ background-color: rgb(0, 116,  
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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