

# Converting Colors

XYZ(104.6695, 100.0000,  
21.3411)

Have a look what the booklet for  
XYZ(104.6695, 100.0000, 21.3411)  
contains.

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# **Color**

**XYZ(73.8481, 84.1594,  
19.9416)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF050
RGB	255, 240, 80
RGB Percent	100%, 94%, 31%
CMY	0.0000, 0.0588, 0.6863
CMYK	0.00, 0.06, 0.69, 0.00
HSL	55°, 100%, 66%
HSV	55°, 69%, 100%
XYZ	73.8481, 84.1594, 19.9416
YIQ	226.2450, 60.3000, -46.5800

# Conversions

## Conversions Part 2

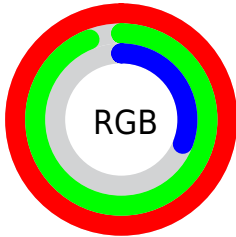
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	96, 255, 80
Decimal	16773200
CIE Lab	93.52, -12.41, 75.25
CIE LCh	94, 76.264, 99.363
Yxy	84.1594, 0.4150, 0.4729
Android (android.graphics.Color)	4294963280 (0xFFFFF050)
YUV	226.2450, -72.0988, 25.2181
Hunter-Lab	91.7384, -16.8524, 51.3288

# Details

The XYZ color **73.8481, 84.1594, 19.9416** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **25.4506, 17.1097, 96.5683**, and the grayscale version is **72.9433, 76.7421, 83.5721**.

A 20% lighter version of the original color is **81.5154, 94.5861, 37.6275**, and **39.6462, 45.8831, 6.7667** is the 20% darker color. If you saturate the color by 10%, you get **72.4403, 82.5766, 15.6735**, and if you desaturate by 10%, it is **75.6248, 85.9086, 26.0974**.

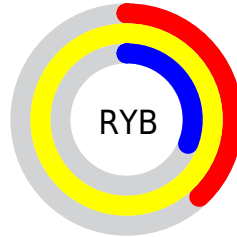
# Distribution



Red (100%)

Green (94%)

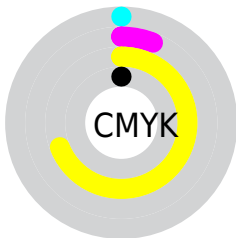
Blue (31%)



Red (38%)

Yellow (100%)

Blue (31%)

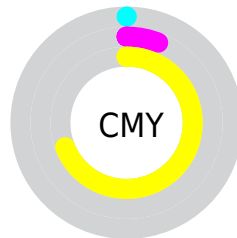


Cyan (0%)

Magenta (6%)

Yellow (69%)

Black (0%)



Cyan (0%)

Magenta (6%)

Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 73.8481, 84.1594, 19.9416 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 73.8481, 84.1594, 19.9416 by changing the saturation by 10% instead.



73.8481, 84.1594,  
19.9416

73.8481, 84.1594,  
19.9416

463.0074,  
508.8424, 264.1926

54.9606, 63.1470,  
12.1689

123.6771,  
139.1981, 44.1769

39.6039, 45.9602,  
6.7349

155.3493,  
173.9933, 61.4767

27.4127, 32.2144,  
3.2209

192.0137,  
214.1515, 82.7892

18.0216, 21.5253,  
1.2085

234.0358,  
260.0572, 108.5331

11.0653, 13.5085,  
0.0000

281.7809,  
312.0948, 139.1268

6.1784, 7.7796,  
0.0000

335.6142,

2.9955, 3.9543,

370.6485, 174.9889

0.0000

395.9013,  
436.1030, 216.5380

■ 1.1514, 1.6480,  
0.0000

■ 0.0675, 0.3897,  
0.0000

■ 73.8481, 84.1594,  
19.9416

■ 73.8481, 84.1594,  
19.9416

■ 72.4403, 82.5766,  
15.6735

■ 75.6248, 85.9086,  
26.0974

■ 71.3528, 81.1310,  
13.0619

■ 77.8009, 87.8267,  
34.3263

■ 70.5262, 79.8021,  
11.7869

■ 80.4101, 89.9306,  
44.7976

■ 70.4219, 79.6241,  
11.6574

■ 83.4809, 92.2317,  
57.6614

■ 87.0395, 94.7405,  
73.0550

■ 91.1101, 97.4666,  
91.1055

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



94.4476, 84.1594, 22.0546



73.8481, 84.1594, 19.9416



57.8361, 84.1594, 29.8080

# Triad

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



73.8481, 84.1594, 19.9416



53.6053, 84.1594, 181.6327



122.0335, 84.1594, 136.6023

# Complementary

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



73.8481, 84.1594, 19.9416



25.4506, 17.1097, 96.5683

# 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.



107.1847, 84.1594, 207.0731



73.8481, 84.1594, 19.9416



67.0904, 84.1594, 239.7622

# Square

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



73.8481, 84.1594, 19.9416



47.5123, 84.1594, 110.9115



86.4654, 84.1594, 250.6422



124.6645, 84.1594, 74.7328



# Rectangle

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



73.8481, 84.1594, 19.9416



51.0559, 84.1594, 45.9009



86.4654, 84.1594, 250.6422



118.1996, 84.1594, 160.6604

# Sweetspot

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



73.8500, 84.1634, 19.9433



86.1495, 94.1259, 69.1638



46.2901, 27.8705, 14.3729



18.2256, 19.9970, 13.8752



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.



73.8500, 84.1634, 19.9433



72.0401, 82.0743, 14.6195



57.2160, 82.4134, 20.4822



19.4203, 20.8088, 19.1373



36.8524, 41.7161, 6.1097



3.6258, 4.1369, 0.6074



# Inverse Universe

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



25.4506, 17.1097, 96.5683



20.9952, 11.4444, 95.7102



33.4972, 19.4424, 96.5945



17.1281, 17.6278, 22.7497



9.6226, 4.1547, 49.7294

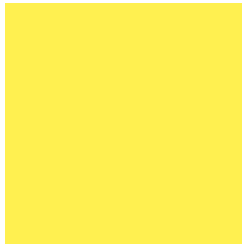


0.9776, 0.4859, 4.8555



# Previews

## White Background



This preview shows how the XYZ color 73.8481, 84.1594, 19.9416 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

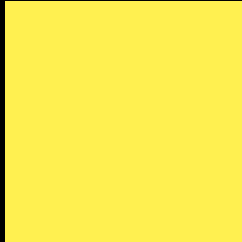
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 73.8481, 84.1594, 19.9416 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 73.8481, 84.1594, 19.9416**

## **Background**



This preview shows how black text looks on a background with the XYZ color 73.8481, 84.1594, 19.9416.



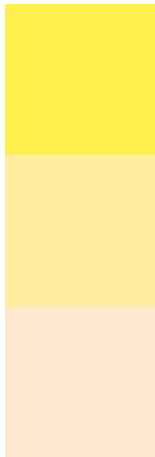
This preview shows how white text looks on a background with the XYZ color 73.8481, 84.1594,



# 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

73.8481, 84.1594, 19.9416

### Protanopia

77.6100, 84.2627, 44.0721

### Deuteranopia

81.5195, 83.9941, 70.3085



## Tritanopia

85.1168, 84.0856, 93.4054

# Trichromacy



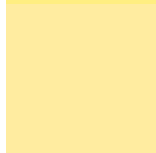
## Original Color

73.8481, 84.1594, 19.9416



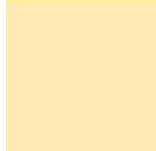
## Protanomaly

75.7770, 83.9941, 32.9875



## Deuteranomaly

77.5806, 83.7890, 45.3417



## Tritanomaly

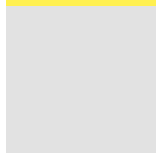
79.0033, 83.4418, 55.6580

# Monochromacy



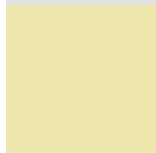
## Original Color

73.8481, 84.1594, 19.9416



## Achromatopsia

72.2879, 76.0525, 82.8211



## Achromatomaly

71.0438, 78.1735, 50.8797

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 73.8481, 84.1594, 19.9416 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(255, 240, 80)` looks like.

```
.text, #text, p{  
    color:rgb(255, 240, 80)  
}
```

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(255, 240, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 240, 80) }
```

## Border

The CSS property to change the border of an element to XYZ 73.8481, 84.1594, 19.9416 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(255, 240, 80) }
```



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

```
.border{ border-color:rgb(255, 240, 80) }
```

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

Here you see how a box with a 4 pixel rgb(255, 240, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 240, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 240, 80);  
box-shadow:4px 4px 4px 4px rgb(255, 240,  
80) }
```

# Background

The CSS property to change the background color of an element to XYZ 73.8481, 84.1594, 19.9416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 240, 80) }
```

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

```
.background{ background-color: rgb(255,  
240, 80) }
```

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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