

# Converting Colors

XYZ(20.0666, 19.4981, 34.6200)

Have a look what the booklet for  
XYZ(20.0666, 19.4981, 34.6200)  
contains.

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# Color

**XYZ(20.0187, 19.4099,  
34.5897)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75779D
RGB	117, 119, 157
RGB Percent	46%, 47%, 62%
CMY	0.5412, 0.5333, 0.3843
CMYK	0.25, 0.24, 0.00, 0.38
HSL	237°, 17%, 54%
HSV	237°, 25%, 62%
XYZ	20.0187, 19.4099, 34.5897
YIQ	122.7340, -13.3900, 11.3940

# Conversions

## Conversions Part 2

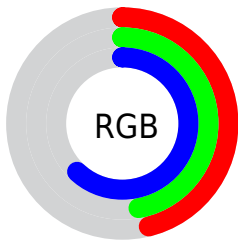
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 119, 157
Decimal	7698333
CIE <sub>Lab</sub>	51.16, 7.99, -20.67
CIE <sub>LCh</sub>	51, 22.158, 291.138
Yxy	19.4099, 0.2705, 0.2622
Android (android.graphics.Color)	4285888413 (0xFF75779D)
YUV	122.7340, 16.8931, -5.0287
Hunter-Lab	44.0567, 4.0086, -15.7100

# Details

The XYZ color **20.0187, 19.4099, 34.5897** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **28.8370, 31.8950, 21.4665**, and the grayscale version is **18.6890, 19.6623, 21.4122**.

A 20% lighter version of the original color is **43.0241, 42.4253, 68.2086**, and **7.2387, 6.7760, 14.5621** is the 20% darker color. If you saturate the color by 10%, you get **16.4457, 15.1369, 33.9536**, and if you desaturate by 10%, it is **24.2253, 24.4240, 35.3361**.

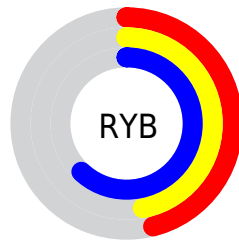
# Distribution



Red (46%)

Green (47%)

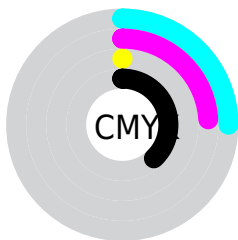
Blue (62%)



Red (46%)

Yellow (47%)

Blue (62%)

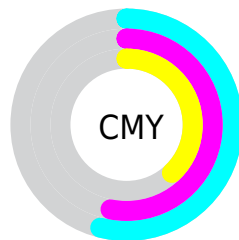


Cyan (25%)

Magenta (24%)

Yellow (0%)

Black (38%)



Cyan (54%)

Magenta (53%)

Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0187, 19.4099, 34.5897 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 20.0187, 19.4099, 34.5897 by changing the saturation by 10% instead.



■ 20.0187, 19.4099,  
34.5897

■ 20.0187, 19.4099,  
34.5897

244.8480,  
248.7024, 337.6026

■ 12.5170, 11.9668,  
23.0660

■ 42.9522, 42.4256,  
67.9940

■ 7.1715, 6.7211,  
14.4365

■ 59.1148, 58.7670,  
90.7117

■ 3.6169, 3.2883,  
8.2827

■ 78.8949, 78.8433,  
117.9977

■ 1.4877, 1.2840,  
4.1860

102.6581,  
103.0390, 150.2707

■ 0.3175, 0.1288,  
1.7279

130.7697,  
131.7383, 187.9491

■ 0.0000, 0.0000,  
0.3798

163.5949,

■ 0.0000, 0.0000,

165.3257, 231.4515

0.0000

201.4992,  
204.1856, 281.1965

■ 20.0187, 19.4099,  
34.5897

■ 20.0187, 19.4099,  
34.5897

■ 16.4457, 15.1369,  
33.9536

■ 24.2253, 24.4240,  
35.3361

■ 13.4739, 11.5676,  
33.4213

■ 29.0922, 30.2095,  
36.1963

■ 11.0707, 8.6650,  
32.9877

■ 34.6468, 36.7979,  
37.1753

■ 9.1998, 6.3877,  
32.6467

■ 40.9143, 44.2182,  
38.2772

■ 7.8206, 4.6896,  
32.3916

■ 47.9188, 52.4982,  
39.5062

■ 6.8868, 3.5184,  
32.2148

■ 55.6832, 61.6640,  
40.8662

■ 6.3400, 2.8107,  
32.1070

■ 64.2293, 71.7409,  
42.3608

■ 6.1711, 2.6049,  
32.0762

■ 73.5782, 82.7531,  
43.9936

■ 82.5248, 94.0922,  
45.7107

# Harmonies

## Analogous

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



17.8036, 19.4099, 35.5306



20.0187, 19.4099, 34.5897



21.9476, 19.4099, 29.6969

# Triad

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



20.0187, 19.4099, 34.5897



21.2362, 19.4099, 13.0249



14.5715, 19.4099, 19.3196

# Complementary

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



20.0187, 19.4099, 34.5897



28.8370, 31.8950, 21.4665

# 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.



15.3427, 19.4099, 14.3992



20.0187, 19.4099, 34.5897



19.1089, 19.4099, 11.2704

# Square

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



20.0187, 19.4099, 34.5897



22.6885, 19.4099, 17.0540



16.9627, 19.4099, 11.7177



14.7727, 19.4099, 25.8179



# Rectangle

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



20.0187, 19.4099, 34.5897



22.7546, 19.4099, 25.3040



16.9627, 19.4099, 11.7177



14.7232, 19.4099, 17.4495

# Sweetspot

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



20.0193, 19.4107, 34.5901



49.6489, 51.1894, 64.3905



25.2540, 30.2405, 35.2239



10.6460, 10.9325, 14.1195



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



20.0193, 19.4107, 34.5901



31.8046, 29.9250, 61.2266



22.3322, 20.2531, 34.6308



6.3101, 6.4859, 8.3260



5.0203, 2.1322, 26.0542



0.0967, 0.0520, 0.4682



# Inverse Universe

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



23.5962, 21.2230, 20.3065



39.4196, 33.8277, 30.8070



26.0274, 30.9452, 21.4313



6.6458, 6.6513, 6.9861



11.3322, 5.8375, 0.7347



0.2061, 0.1058, 0.0315



# Previews

## White Background



This preview shows how the XYZ color 20.0187, 19.4099, 34.5897 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 20.0187, 19.4099, 34.5897 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

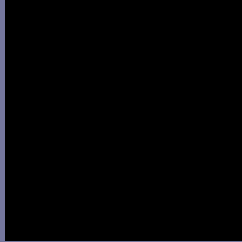
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 20.0187, 19.4099, 34.5897**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.0187, 19.4099, 34.5897.



This preview shows how white text looks on a background with the XYZ color 20.0187, 19.4099,



# 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

20.0187, 19.4099, 34.5897

### Protanopia

19.5701, 19.3463, 35.0505

### Deuteranopia

19.8725, 19.5121, 34.6171



## Tritanopia

17.9987, 19.3041, 24.9677

# Trichromacy



## Original Color

20.0187, 19.4099, 34.5897

## Protanomaly

19.8275, 19.4790, 35.0625

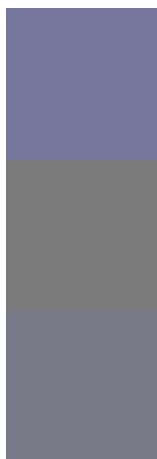
## Deuteranomaly

20.0047, 19.5803, 34.6233

## Tritanomaly

18.7814, 19.4495, 28.3554

# Monochromacy



## Original Color

20.0187, 19.4099, 34.5897

## Achromatopsia

18.8265, 19.8069, 21.5697

## Achromatomaly

19.2179, 19.7333, 25.7177

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.0187, 19.4099, 34.5897 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(117, 119, 157)` looks like.

```
.text, #text, p{  
    color:rgb(117, 119, 157)  
}
```

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(117, 119, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 119, 157) }
```

## Border

The CSS property to change the border of an element to XYZ 20.0187, 19.4099, 34.5897 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(117, 119, 157) }
```



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

```
.border{ border-color:rgb(117, 119, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 119, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(117, 119, 157); -webkit-box-shadow:4px 4px 4px 4px rgb(117, 119, 157); box-shadow:4px 4px 4px 4px rgb(117, 119, 157) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.0187, 19.4099, 34.5897 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 119, 157) }
```

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

```
.background{ background-color: rgb(117,  
119, 157) }
```

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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