

# Converting Colors

XYZ(19.3566, 17.9190, 35.6318)

Have a look what the booklet for  
XYZ(19.3566, 17.9190, 35.6318)  
contains.

<b>XYZ(19.3418, 17.8394, 35.6816)</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> .....	31

# Color

**XYZ(19.3418, 17.8394,  
35.6816)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7470A0
RGB	116, 112, 160
RGB Percent	45%, 44%, 63%
CMY	0.5451, 0.5608, 0.3725
CMYK	0.27, 0.30, 0.00, 0.37
HSL	245°, 20%, 53%
HSV	245°, 30%, 63%
XYZ	19.3418, 17.8394, 35.6816
YIQ	118.6680, -13.0240, 15.7760

# Conversions

## Conversions Part 2

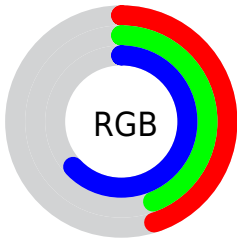
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	116, 112, 160
Decimal	7631008
CIE Lab	49.30, 12.63, -25.30
CIE LCh	49, 28.276, 296.524
Yxy	17.8394, 0.2655, 0.2448
Android (android.graphics.Color)	4285821088 (0xFF7470A0)
YUV	118.6680, 20.3767, -2.3398
Hunter-Lab	42.2367, 7.8277, -20.5225

# Details

The XYZ color **19.3418, 17.8394, 35.6816** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **29.2061, 33.3797, 20.2335**, and the grayscale version is **17.3710, 18.2756, 19.9021**.

A 20% lighter version of the original color is **41.9034, 39.8922, 69.7814**, and **6.7869, 5.9078, 14.9700** is the 20% darker color. If you saturate the color by 10%, you get **15.9328, 13.6904, 35.0607**, and if you desaturate by 10%, it is **23.3736, 22.7760, 36.4223**.

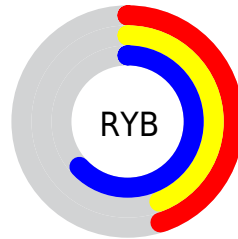
# Distribution



Red (45%)

Green (44%)

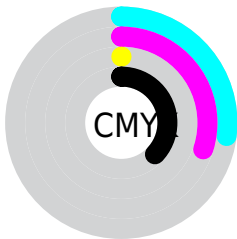
Blue (63%)



Red (45%)

Yellow (44%)

Blue (63%)

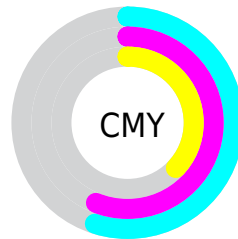


Cyan (27%)

Magenta (30%)

Yellow (0%)

Black (37%)



Cyan (55%)

Magenta (56%)

Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.3418, 17.8394, 35.6816 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 19.3418, 17.8394, 35.6816 by changing the saturation by 10% instead.



■ 19.3418, 17.8394,  
35.6816

■ 19.3418, 17.8394,  
35.6816

241.2313,  
239.9643, 342.5620

■ 12.0230, 10.8347,  
23.9006

■ 41.8233, 39.7635,  
69.7038

■ 6.8316, 5.9558,  
15.0484

■ 57.7167, 55.4517,  
92.7822

■ 3.4024, 2.8182,  
8.7064

■ 77.1990, 74.8032,  
120.4635

■ 1.3700, 1.0376,  
4.4560

■ 100.6355, 98.2024,  
153.1662

■ 0.2347, 0.0000,  
1.8787

128.3916,  
126.0338, 191.3088

■ 0.0000, 0.0000,  
0.4791

160.8328,

■ 0.0000, 0.0000,

158.6816, 235.3100

0.0000

198.3242,  
196.5303, 285.5882

■ 19.3418, 17.8394,  
35.6816

■ 19.3418, 17.8394,  
35.6816

■ 15.9328, 13.6904,  
35.0607

■ 23.3736, 22.7760,  
36.4223

■ 13.1137, 10.2861,  
34.5522

■ 28.0551, 28.5356,  
37.2872

■ 10.8514, 7.5829,  
34.1497

■ 33.4141, 35.1544,  
38.2823

■ 9.1088, 5.5319,  
33.8457

■ 39.4761, 42.6655,  
39.4126

■ 7.8442, 4.0777,  
33.6316

■ 46.2651, 51.1003,  
40.6829

■ 7.0095, 3.1556,  
33.4976

■ 53.8043, 60.4889,  
42.0977

■ 6.5162, 2.6263,  
33.4215

■ 62.1156, 70.8597,  
43.6614

■ 6.5162, 2.6262,  
33.4215

■ 71.2202, 82.2402,  
45.3782

■ 80.8175, 94.0150,  
47.1452

# Harmonies

## Analogous

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



16.6479, 17.8394, 38.0002



19.3418, 17.8394, 35.6816



21.5854, 17.8394, 28.6664

# Triad

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



19.3418, 17.8394, 35.6816



19.9335, 17.8394, 9.5954



12.3495, 17.8394, 18.5503

# Complementary

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



19.3418, 17.8394, 35.6816



29.2061, 33.3797, 20.2335

# 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.



13.0406, 17.8394, 12.4183



19.3418, 17.8394, 35.6816



17.2675, 17.8394, 8.1720

# Square

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



19.3418, 17.8394, 35.6816



21.9514, 17.8394, 13.5940



14.7746, 17.8394, 9.0516



12.7822, 17.8394, 26.7202



# Rectangle

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



19.3418, 17.8394, 35.6816



22.4265, 17.8394, 23.0380



14.7746, 17.8394, 9.0516



12.4561, 17.8394, 16.2094

# Sweetspot

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



19.3424, 17.8401, 35.6820



51.6955, 52.7440, 67.8425



24.9162, 29.7602, 37.6890



11.0623, 11.2282, 14.8279



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



19.3424, 17.8401, 35.6820



30.8534, 27.1939, 64.0093



22.9551, 19.7025, 35.8511



6.3335, 6.4604, 8.3198



5.0930, 2.0546, 26.0354



0.1043, 0.0436, 0.4661



# Inverse Universe

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



26.2926, 21.4628, 34.2098



45.5825, 34.8750, 60.7209



25.0116, 31.2174, 20.0372



6.8803, 6.7450, 8.2208



15.3830, 7.4578, 22.0659



0.2814, 0.1359, 0.4278



# Previews

## White Background



This preview shows how the XYZ color 19.3418, 17.8394, 35.6816 looks on a white 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



# Black Background



This preview shows how the XYZ color 19.3418, 17.8394, 35.6816 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 19.3418, 17.8394, 35.6816**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.3418, 17.8394, 35.6816.



This preview shows how white text looks on a background with the XYZ color 19.3418, 17.8394,



# 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

19.3418, 17.8394, 35.6816

### Protanopia

18.4498, 18.0187, 37.1559

### Deuteranopia

18.3291, 17.9972, 35.3087



## Tritanopia

16.8051, 17.8304, 22.9780

# Trichromacy



## Original Color

19.3418, 17.8394, 35.6816

## Protanomaly

18.8367, 18.0582, 36.6752

## Deuteranomaly

18.6954, 18.0159, 35.2929

## Tritanomaly

17.6611, 17.8290, 27.3214

# Monochromacy



## Original Color

19.3418, 17.8394, 35.6816

## Achromatopsia

17.5343, 18.4475, 20.0893

## Achromatomaly

18.0197, 18.0636, 25.0911

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.3418, 17.8394, 35.6816 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(116, 112, 160)` looks like.

```
.text, #text, p{  
    color:rgb(116, 112, 160)  
}
```

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(116, 112, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 112, 160) }
```

## Border

The CSS property to change the border of an element to XYZ 19.3418, 17.8394, 35.6816 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(116, 112, 160) }
```



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

```
.border{ border-color:rgb(116, 112, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 112, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 112, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 112, 160);  
box-shadow:4px 4px 4px 4px rgb(116, 112,  
160) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.3418, 17.8394, 35.6816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 112, 160) }
```

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

```
.background{ background-color: rgb(116,  
112, 160) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor