

# Converting Colors

XYZ(16.5873, 19.9003, 3.6465)

Have a look what the booklet for  
XYZ(16.5873, 19.9003, 3.6465)  
contains.

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# Color

**XYZ(16.5978, 20.0009,  
3.6476)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7F8014
RGB	127, 128, 20
RGB Percent	50%, 50%, 8%
CMY	0.5020, 0.4980, 0.9215
CMYK	0.01, 0.00, 0.84, 0.50
HSL	61°, 73%, 29%
HSV	61°, 84%, 50%
XYZ	16.5978, 20.0009, 3.6476
YIQ	115.3890, 34.0720, -33.8000

# Conversions

## Conversions Part 2

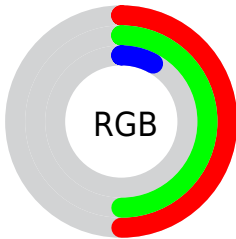
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 128, 21
Decimal	8355860
CIE Lab	51.84, -12.93, 52.49
CIE LCh	52, 54.059, 103.841
Yxy	20.0009, 0.4124, 0.4970
Android (android.graphics.Color)	4286545940 (0xFF7F8014)
YUV	115.3890, -47.0268, 10.1828
Hunter-Lab	44.7224, -12.0175, 26.4699

# Details

The XYZ color **16.5978, 20.0009, 3.6476** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **4.4563, 2.2187, 20.6168**, and the grayscale version is **16.5459, 17.4076, 18.9569**.

A 20% lighter version of the original color is **37.3568, 43.6368, 13.2913**, and **5.6200, 7.0478, 1.0642** is the 20% darker color. If you saturate the color by 10%, you get **16.4937, 19.9580, 3.1899**, and if you desaturate by 10%, it is **16.7615, 20.0692, 4.4150**.

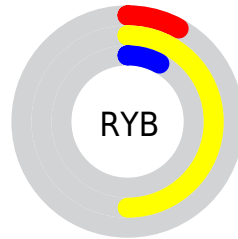
# Distribution



Red (50%)

Green (50%)

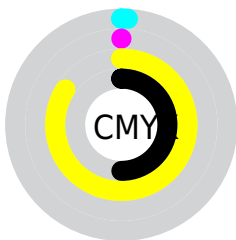
Blue (8%)



Red (8%)

Yellow (50%)

Blue (8%)

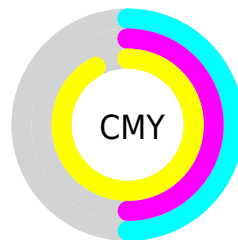


Cyan (1%)

Magenta (0%)

Yellow (84%)

Black (50%)



Cyan (50%)

Magenta (50%)

Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5978, 20.0009, 3.6476 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 16.5978, 20.0009, 3.6476 by changing the saturation by 10% instead.



■ 16.5978, 20.0009,  
3.6476

■ 16.5978, 20.0009,  
3.6476

226.0455,  
251.9200, 144.2240

■ 10.0417, 12.3957,  
1.4341

■ 37.1821, 43.4187,  
13.1885

■ 5.4891, 7.0138,  
0.1681

■ 51.9409, 60.0001,  
21.3530

■ 2.5747, 3.4707,  
0.0000

■ 70.1647, 80.3423,  
32.3382

■ 0.9331, 1.3821,  
0.0000

■ 92.2189, 104.8298,  
46.5626

■ 0.0000, 0.2035,  
0.0000

■ 118.4686,  
133.8469, 64.4449

■ 0.0000, 0.0000,  
0.0000

■ 149.2795,

167.7780, 86.4035

185.0166,  
207.0076, 112.8571

16.5978, 20.0009,  
3.6476

16.5978, 20.0009,  
3.6476

16.4937, 19.9580,  
3.1899

16.7615, 20.0692,  
4.4150

16.4442, 19.9370,  
2.9815

16.9929, 20.1638,  
5.5407

17.2994, 20.2884,  
7.0618

17.6871, 20.4456,  
9.0104

18.1614, 20.6374,  
11.4153

■ 18.7275, 20.8659,  
14.3029

■ 19.3898, 21.1329,  
17.6974

■ 20.1528, 21.4401,  
21.6217

■ 21.0204, 21.7892,  
26.0968

# Harmonies

## Analogous

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



22.0981, 20.0009, 3.7445



16.5978, 20.0009, 3.6476



12.6024, 20.0009, 6.4518

# Triad

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



16.5978, 20.0009, 3.6476



12.3745, 20.0009, 50.1039



31.0421, 20.0009, 31.3085

# Complementary

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



16.5978, 20.0009, 3.6476



4.4563, 2.2187, 20.6168

# 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.



27.2886, 20.0009, 51.6242



16.5978, 20.0009, 3.6476



16.2243, 20.0009, 65.5616

# Square

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



16.5978, 20.0009, 3.6476



10.5005, 20.0009, 29.8296



21.6458, 20.0009, 66.2229



31.1954, 20.0009, 15.3230



# Rectangle

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



16.5978, 20.0009, 3.6476



11.0301, 20.0009, 10.9936



21.6458, 20.0009, 66.2229



30.1313, 20.0009, 37.9867

# Sweetspot

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



16.5983, 20.0018, 3.6480



32.8417, 36.6833, 24.5222



9.2792, 5.1405, 1.1652



7.6175, 8.5596, 5.3755



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

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



16.5983, 20.0018, 3.6480



28.9436, 35.0963, 5.2488



10.6704, 16.9459, 3.3706



4.6615, 5.0175, 4.6429



16.3046, 19.7677, 2.9562



0.0000, 0.0000, 0.0000



# Inverse Universe

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



4.4563, 2.2187, 20.6168



6.8793, 2.7540, 36.1253



6.9712, 3.5152, 20.7345



4.1123, 4.2135, 5.4098



3.8783, 1.5530, 20.3453



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 16.5978, 20.0009, 3.6476 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 16.5978, 20.0009, 3.6476 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

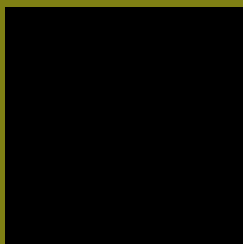
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 16.5978, 20.0009, 3.6476**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.5978, 20.0009, 3.6476.



This preview shows how white text looks on a background with the XYZ color 16.5978, 20.0009,



# 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

16.5978, 20.0009, 3.6476

### Protanopia

17.9727, 19.9513, 3.5198

### Deuteranopia

20.2694, 19.8696, 3.8038



## Tritanopia

20.4848, 19.9031, 23.1841

# Trichromacy



## Original Color

16.5978, 20.0009, 3.6476

## Protanomaly

17.4428, 19.8651, 3.5311

## Deuteranomaly

18.6793, 19.7604, 3.6938

## Tritanomaly

18.2784, 19.5459, 12.2605

# Monochromacy



## Original Color

16.5978, 20.0009, 3.6476

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

15.7722, 17.9341, 10.2198

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.5978, 20.0009, 3.6476 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(127, 128, 20)` looks like.

```
.text, #text, p{  
    color:rgb(127, 128, 20)  
}
```

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(127, 128, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 128, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 16.5978, 20.0009, 3.6476 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(127, 128, 20) }
```



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

```
.border{ border-color:rgb(127, 128, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 128, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 128, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 128, 20);  
box-shadow:4px 4px 4px 4px rgb(127, 128,  
20) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.5978, 20.0009, 3.6476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 128, 20) }
```

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

```
.background{ background-color: rgb(127,  
128, 20) }
```

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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