

# Converting Colors

XYZ(18.0586, 23.0973, 10.1380)

Have a look what the booklet for  
XYZ(18.0586, 23.0973, 10.1380)  
contains.

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# Color

**XYZ(18.1193, 23.1157,  
10.1634)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	768C4B
RGB	118, 140, 75
RGB Percent	46%, 55%, 29%
CMY	0.5373, 0.4510, 0.7059
CMYK	0.16, 0.00, 0.46, 0.45
HSL	80°, 30%, 42%
HSV	80°, 46%, 55%
XYZ	18.1193, 23.1157, 10.1634
YIQ	126.0120, 7.7530, -24.8790

# Conversions

## Conversions Part 2

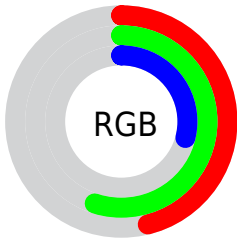
<b>Format</b>	<b>Color</b>
<b>RYB</b>	75, 140, 97
Decimal	7769163
CIELab	55.19, -19.09, 32.02
CIELCh	55, 37.281, 120.809
Yxy	23.1157, 0.3525, 0.4497
Android (android.graphics.Color)	4285959243 (0xFF768C4B)
YUV	126.0120, -25.1489, -7.0265
Hunter-Lab	48.0788, -16.8672, 21.1218

# Details

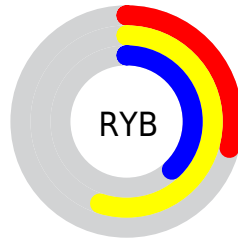
The XYZ color **18.1193, 23.1157, 10.1634** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **12.1804, 9.4676, 25.9977**, and the grayscale version is **19.9168, 20.9540, 22.8189**.

A 20% lighter version of the original color is **39.7880, 48.7222, 26.7093**, and **6.2497, 8.6251, 2.4340** is the 20% darker color. If you saturate the color by 10%, you get **17.0646, 22.6221, 7.8822**, and if you desaturate by 10%, it is **19.3130, 23.6702, 13.0026**.

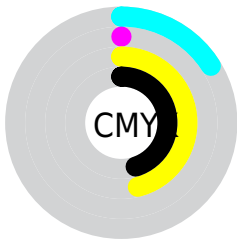
# Distribution



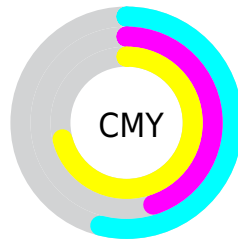
- Red (46%)
- Green (55%)
- Blue (29%)



- Red (29%)
- Yellow (55%)
- Blue (38%)



- Cyan (16%)
- Magenta (0%)
- Yellow (46%)
- Black (45%)



- Cyan (54%)
- Magenta (45%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.1193, 23.1157, 10.1634 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 18.1193, 23.1157, 10.1634 by changing the saturation by 10% instead.



■ 18.1193, 23.1157,  
10.1634

■ 18.1193, 23.1157,  
10.1634

234.5752,  
268.3187, 202.3613

■ 11.1359, 14.6790,  
5.4004

■ 39.7690, 48.5832,  
26.7150

■ 6.2263, 8.5944,  
2.4212

■ 55.1660, 66.3828,  
39.3407

■ 3.0251, 4.4776,  
0.7980

■ 74.0982, 88.0722,  
55.4244

■ 1.1671, 1.9441,  
0.0000

■ 96.9310, 114.0356,  
75.3845

■ 0.0801, 0.5747,  
0.0000

■ 124.0298,  
144.6576, 99.6398

■ 0.0000, 0.0000,  
0.0000

155.7598,

180.3225, 128.6087

192.4865,  
221.4148, 162.7097

■ 18.1193, 23.1157,  
10.1634

■ 18.1193, 23.1157,  
10.1634

■ 17.0646, 22.6221,  
7.8822

■ 19.3130, 23.6702,  
13.0026

■ 16.1397, 22.1833,  
6.1206

■ 20.6507, 24.2853,  
16.4317

■ 15.3368, 21.7970,  
4.8378


■ 22.1394, 24.9647,  
20.4823


■ 14.6465, 21.4593,  
3.9862


■ 23.7850, 25.7106,  
25.1829


■ 14.0533, 21.1639,  
3.4879


■ 25.5929, 26.5255,  
30.5605

 13.8536, 21.0641,  
3.3356

 27.5685, 27.4114,  
36.6405

 29.7166, 28.3704,  
43.4471

 32.0422, 29.4045,  
51.0030

 34.5497, 30.5154,  
59.3304

# Harmonies

## Analogous

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



21.8579, 23.1157, 8.4969



18.1193, 23.1157, 10.1634



15.6953, 23.1157, 15.5590

# Triad

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



18.1193, 23.1157, 10.1634



18.2921, 23.1157, 50.9679



30.9898, 23.1157, 24.8466

# Complementary

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



18.1193, 23.1157, 10.1634



12.1804, 9.4676, 25.9977

# 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.



29.7292, 23.1157, 38.0930



18.1193, 23.1157, 10.1634



22.0840, 23.1157, 55.7695

# Square

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



18.1193, 23.1157, 10.1634



15.7858, 23.1157, 38.8372



26.3327, 23.1157, 50.4513



29.5911, 23.1157, 15.1555



# Rectangle

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



18.1193, 23.1157, 10.1634



14.9760, 23.1157, 21.6808



26.3327, 23.1157, 50.4513



30.8617, 23.1157, 29.0127

# Sweetspot

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



18.1199, 23.1167, 10.1639



39.6263, 44.2823, 37.7796



16.3300, 14.5721, 8.6089



9.0067, 10.1473, 8.3568



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



18.1199, 23.1167, 10.1639



29.9538, 39.8204, 13.6315



14.4712, 21.2358, 9.9931



5.2694, 5.7616, 5.3868



12.3304, 18.7265, 2.9647



0.0976, 0.1325, 0.0204



# Inverse Universe

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



12.1804, 9.4676, 25.9977



18.1267, 12.6024, 45.2201



16.3291, 11.6064, 26.1918



4.9239, 4.9692, 6.3055



5.2832, 2.2377, 22.1992



0.0496, 0.0223, 0.1481



# Previews

## White Background



This preview shows how the XYZ color 18.1193, 23.1157, 10.1634 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 18.1193, 23.1157, 10.1634 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 18.1193, 23.1157, 10.1634

## Background



This preview shows how black text looks on a background with the XYZ color 18.1193, 23.1157, 10.1634.



This preview shows how white text looks on a background with the XYZ color 18.1193, 23.1157,



# 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

18.1193, 23.1157, 10.1634

### Protanopia

21.0980, 22.9902, 9.4564

### Deuteranopia

23.3332, 22.9454, 10.4068



## Tritanopia

21.9616, 22.9977, 29.2681

# Trichromacy



## Original Color

18.1193, 23.1157, 10.1634

## Protanomaly

19.8582, 22.9599, 9.6884

## Deuteranomaly

21.1329, 22.7882, 10.3059

## Tritanomaly

20.2462, 22.9210, 20.4967

# Monochromacy



## Original Color

18.1193, 23.1157, 10.1634

## Achromatopsia

19.8309, 20.8637, 22.7206

## Achromatomaly

18.9385, 21.5051, 17.0626

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.1193, 23.1157, 10.1634 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(118, 140, 75)` looks like.

```
.text, #text, p{  
    color:rgb(118, 140, 75)  
}
```

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(118, 140, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 140, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 18.1193, 23.1157, 10.1634 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(118, 140, 75) }
```



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

```
.border{ border-color:rgb(118, 140, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 140, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 140, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 140, 75);  
box-shadow:4px 4px 4px 4px rgb(118, 140,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.1193, 23.1157, 10.1634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 140, 75) }
```

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

```
.background{ background-color: rgb(118,  
140, 75) }
```

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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