

# Converting Colors

XYZ(19.2452, 25.2106, 12.0245)

Have a look what the booklet for  
XYZ(19.2452, 25.2106, 12.0245)  
contains.

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# Color

**XYZ(19.1975, 25.2050,  
12.0368)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	749353
RGB	116, 147, 83
RGB Percent	45%, 58%, 33%
CMY	0.5451, 0.4235, 0.6745
CMYK	0.21, 0.00, 0.44, 0.42
HSL	89°, 28%, 45%
HSV	89°, 44%, 58%
XYZ	19.1975, 25.2050, 12.0368
YIQ	130.4350, 2.0680, -26.4760

# Conversions

## Conversions Part 2

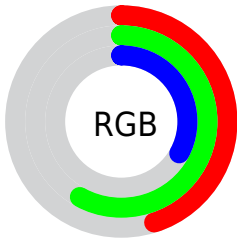
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	83, 147, 114
Decimal	7639891
CIE <sub>Lab</sub>	57.27, -22.48, 30.35
CIE <sub>LCh</sub>	57, 37.765, 126.523
Yxy	25.2050, 0.3401, 0.4466
Android (android.graphics.Color)	4285829971 (0xFF749353)
YUV	130.4350, -23.3855, -12.6595
Hunter-Lab	50.2046, -19.6022, 20.9281

# Details

The XYZ color **19.1975, 25.2050, 12.0368** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **15.3002, 11.8712, 29.0902**, and the grayscale version is **21.4527, 22.5699, 24.5787**.

A 20% lighter version of the original color is **41.5519, 51.9295, 30.3876**, and **6.7481, 9.6514, 3.1763** is the 20% darker color. If you saturate the color by 10%, you get **17.7787, 24.5331, 9.3155**, and if you desaturate by 10%, it is **20.8105, 25.9647, 15.3965**.

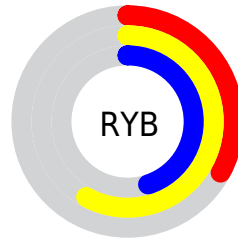
# Distribution



Red (45%)

Green (58%)

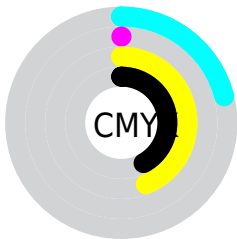
Blue (33%)



Red (33%)

Yellow (58%)

Blue (45%)

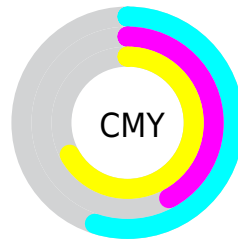


Cyan (21%)

Magenta (0%)

Yellow (44%)

Black (42%)



Cyan (55%)

Magenta (42%)

Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.1975, 25.2050, 12.0368 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 19.1975, 25.2050, 12.0368 by changing the saturation by 10% instead.



■ 19.1975, 25.2050,  
12.0368

■ 19.1975, 25.2050,  
12.0368

240.4541,  
278.8573, 215.6353

■ 11.9179, 16.2299,  
6.6459

■ 41.5819, 51.9896,  
30.2275

■ 6.7596, 9.6869,  
3.1666

■ 57.4174, 70.5678,  
43.8644

■ 3.3572, 5.1919,  
1.1803

■ 76.8355, 93.1159,  
61.0870

■ 1.3454, 2.3603,  
0.0000

■ 100.2018,  
120.0182, 82.3140

■ 0.2168, 0.8053,  
0.0000

■ 127.8814,  
151.6591, 107.9637

■ 0.0000, 0.0000,  
0.0000

160.2397,

188.4230, 138.4548

197.6422,  
230.6942, 174.2058

■ 19.1975, 25.2050,  
12.0368

■ 19.1975, 25.2050,  
12.0368

■ 17.7787, 24.5331,  
9.3155

■ 20.8105, 25.9647,  
15.3965

■ 16.5429, 23.9418,  
7.1904

■ 22.6245, 26.8124,  
19.4298

■ 15.4805, 23.4279,  
5.6169


■ 24.6479, 27.7526,  
24.1715


■ 14.5800, 22.9865,  
4.5435


■ 26.8884, 28.7886,  
29.6533


■ 13.8280, 22.6121,  
3.9085


■ 29.3529, 29.9233,  
35.9051

 13.3983, 22.3966,  
3.6168

 32.0483, 31.1596,  
42.9552

 34.9809, 32.5002,  
50.8304

 38.1570, 33.9476,  
59.5561

 41.5825, 35.5046,  
69.1569

# Harmonies

## Analogous

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



22.9935, 25.2050, 9.5353



19.1975, 25.2050, 12.0368



16.9073, 25.2050, 18.7608

# Triad

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



19.1975, 25.2050, 12.0368



20.6937, 25.2050, 56.7727



33.5488, 25.2050, 24.7418

# Complementary

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



19.1975, 25.2050, 12.0368



15.3002, 11.8712, 29.0902

# 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.



32.7348, 25.2050, 38.4622



19.1975, 25.2050, 12.0368



24.9462, 25.2050, 59.8764

# Square

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



19.1975, 25.2050, 12.0368



17.6931, 25.2050, 44.8516



29.4436, 25.2050, 52.3531



31.5472, 25.2050, 15.2480



# Rectangle

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



19.1975, 25.2050, 12.0368



16.3620, 25.2050, 25.9785



29.4436, 25.2050, 52.3531



33.5987, 25.2050, 28.9636

# Sweetspot

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



19.1981, 25.2061, 12.0373



44.2420, 49.7465, 43.5333



19.6047, 18.8481, 10.7887



9.9229, 11.2741, 9.5158



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



19.1981, 25.2061, 12.0373



31.9491, 43.9863, 16.8857



15.6579, 23.3811, 11.8717



5.9977, 6.6066, 6.1996



11.6437, 19.4304, 3.1368



0.1765, 0.2554, 0.0400



# Inverse Universe

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



15.3002, 11.8712, 29.0902



24.0524, 16.9656, 51.4416



20.2030, 14.3987, 29.3196



5.7508, 5.7625, 7.2789



6.8602, 3.0092, 24.1503



0.1177, 0.0542, 0.2972



# Previews

## White Background



This preview shows how the XYZ color 19.1975, 25.2050, 12.0368 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

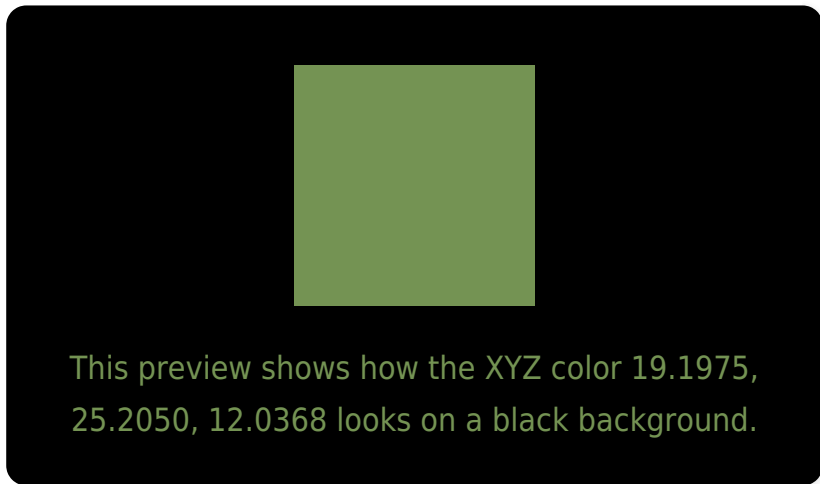
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## 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 19.1975, 25.2050, 12.0368**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.1975, 25.2050, 12.0368.



This preview shows how white text looks on a background with the XYZ color 19.1975, 25.2050,



# 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

19.1975, 25.2050, 12.0368

### Protanopia

22.9346, 24.9399, 11.0022

### Deuteranopia

25.3536, 24.9201, 12.4906



## Tritanopia

23.3418, 25.1029, 32.4693

# Trichromacy



## Original Color

19.1975, 25.2050, 12.0368

## Protanomaly

21.4541, 25.0322, 11.2904

## Deuteranomaly

22.6580, 24.7663, 12.3903

## Tritanomaly

21.4649, 24.9899, 23.4309

# Monochromacy



## Original Color

19.1975, 25.2050, 12.0368

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

20.2422, 23.1605, 19.0263

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.1975, 25.2050, 12.0368 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, 147, 83)` looks like.

```
.text, #text, p{  
    color:rgb(116, 147, 83)  
}
```

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, 147, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 147, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 19.1975, 25.2050, 12.0368 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, 147, 83) }
```



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

```
.border{ border-color:rgb(116, 147, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 147, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 147, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 147, 83);  
box-shadow:4px 4px 4px 4px rgb(116, 147,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.1975, 25.2050, 12.0368 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 147, 83) }
```

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

```
.background{ background-color: rgb(116,  
147, 83) }
```

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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