

# Converting Colors

XYZ(13.8368, 16.8604, 13.1732)

Have a look what the booklet for  
XYZ(13.8368, 16.8604, 13.1732)  
contains.

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# Color

**XYZ(13.8824, 16.8937,  
13.1188)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63785E
RGB	99, 120, 94
RGB Percent	39%, 47%, 37%
CMY	0.6118, 0.5294, 0.6314
CMYK	0.18, 0.00, 0.22, 0.53
HSL	108°, 12%, 42%
HSV	108°, 22%, 47%
XYZ	13.8824, 16.8937, 13.1188
YIQ	110.7570, -4.1700, -12.5380

# Conversions

## Conversions Part 2

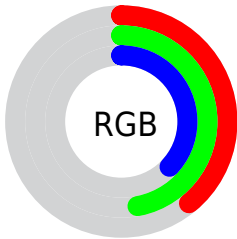
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	94, 120, 115
Decimal	6518878
CIE <sub>Lab</sub>	48.13, -13.09, 11.78
CIE <sub>LCh</sub>	48, 17.609, 138.009
Yxy	16.8937, 0.3163, 0.3849
Android (android.graphics.Color)	4284708958 (0xFF63785E)
YUV	110.7570, -8.2612, -10.3109
Hunter-Lab	41.1019, -11.6391, 9.8474

# Details

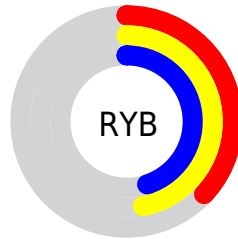
The XYZ color **13.8824, 16.8937, 13.1188** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.4638, 13.0068, 19.5184**, and the grayscale version is **15.0634, 15.8479, 17.2583**.

A 20% lighter version of the original color is **32.3642, 38.0027, 32.0150**, and **4.2029, 5.4499, 3.6267** is the 20% darker color. If you saturate the color by 10%, you get **12.3892, 16.1819, 10.4532**, and if you desaturate by 10%, it is **15.5874, 17.7060, 16.2321**.

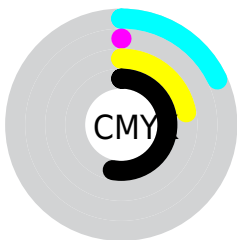
# Distribution



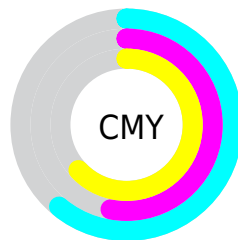
- Red (39%)
- Green (47%)
- Blue (37%)



- Red (37%)
- Yellow (47%)
- Blue (45%)



- Cyan (18%)
- Magenta (0%)
- Yellow (22%)
- Black (53%)



- Cyan (61%)
- Magenta (53%)
- Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.8824, 16.8937, 13.1188 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 13.8824, 16.8937, 13.1188 by changing the saturation by 10% instead.



■ 13.8824, 16.8937,  
13.1188

■ 13.8824, 16.8937,  
13.1188

210.0233,  
234.5591, 222.9121

■ 8.1201, 10.1587,  
7.3787

■ 32.4682, 38.1429,  
32.2114

■ 4.2243, 5.5043,  
3.6180

■ 46.0224, 53.4260,  
46.4009

■ 1.8298, 2.5461,  
1.4182

■ 62.9047, 72.3271,  
64.2440

■ 0.5355, 0.8996,  
0.1559

■ 83.4802, 95.2309,  
86.1593

■ 0.0000, 0.0000,  
0.0000

108.1145,  
122.5215, 112.5652

137.1729,

154.5835, 143.8802

171.0207,  
191.8012, 180.5231

■ 13.8824, 16.8937,  
13.1188

■ 13.8824, 16.8937,  
13.1188

■ 12.3892, 16.1819,  
10.4532

■ 15.5874, 17.7060,  
16.2321

■ 11.0981, 15.5645,  
8.2138

■ 17.5107, 18.6203,  
19.8112

■ 10.0006, 15.0382,  
6.3786

■ 19.6602, 19.6407,  
23.8746

■ 9.0872, 14.5986,  
4.9236

■ 22.0430, 20.7705,  
28.4393

■ 8.3475, 14.2409,  
3.8222

■ 24.6660, 22.0129,  
33.5218

■ 7.7698, 13.9597,  
3.0440

■ 27.5355, 23.3709,  
39.1374

■ 7.3412, 13.7491,  
2.5541

■ 30.6579, 24.8474,  
45.3012

■ 7.0718, 13.6166,  
2.2555

■ 34.0392, 26.4451,  
52.0274

■ 37.6853, 28.1669,  
59.3298

# Harmonies

## Analogous

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



15.1268, 16.8937, 11.2382



13.8824, 16.8937, 13.1188



13.2383, 16.8937, 16.6281

# Triad

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



13.8824, 16.8937, 13.1188



15.4278, 16.8937, 28.4002



19.1558, 16.8937, 15.8088

# Complementary

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



13.8824, 16.8937, 13.1188



14.4638, 13.0068, 19.5184

# 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.



19.2497, 16.8937, 20.2814



13.8824, 16.8937, 13.1188



17.0245, 16.8937, 28.0824

# Square

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



13.8824, 16.8937, 13.1188



14.0902, 16.8937, 25.7303



18.4475, 16.8937, 24.9229



18.1988, 16.8937, 12.6049



# Rectangle

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



13.8824, 16.8937, 13.1188



13.2058, 16.8937, 19.6462



18.4475, 16.8937, 24.9229



19.2915, 16.8937, 17.1969

# Sweetspot

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



13.8828, 16.8944, 13.1192



28.8866, 31.8405, 31.2748



15.8747, 17.0179, 13.0380



6.8127, 7.5301, 7.3502



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256



# Same Dimension

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



13.8828, 16.8944, 13.1192



23.0654, 29.0688, 20.6471



13.7214, 16.7687, 15.0323



4.0162, 4.4837, 4.2782



7.7045, 14.8491, 2.4601



36.1964, 70.5453, 11.7089



# Inverse Universe

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



14.4638, 13.0068, 19.5184



24.2776, 20.9458, 34.0165



14.6848, 13.1732, 17.1570



4.0826, 4.0404, 5.0079



9.0570, 4.2418, 19.7267

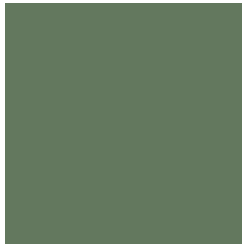


42.5198, 19.8817, 94.0663



# Previews

## White Background



This preview shows how the XYZ color 13.8824, 16.8937, 13.1188 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 13.8824, 16.8937, 13.1188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

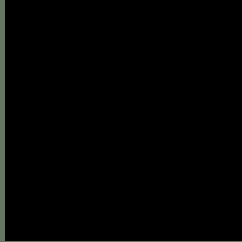
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 13.8824, 16.8937, 13.1188**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.8824, 16.8937, 13.1188.



This preview shows how white text looks on a background with the XYZ color 13.8824, 16.8937,



# 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

13.8824, 16.8937, 13.1188

### Protanopia

15.7908, 16.8549, 12.3186

### Deuteranopia

17.0473, 16.8217, 13.4147



## Tritanopia

15.6560, 16.9145, 21.8417

# Trichromacy



## Original Color

13.8824, 16.8937, 13.1188

## Protanomaly

14.9872, 16.7742, 12.5730

## Deuteranomaly

15.6906, 16.7828, 13.2389

## Tritanomaly

14.8780, 16.7623, 18.3709

# Monochromacy



## Original Color

13.8824, 16.8937, 13.1188

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

14.6305, 16.1803, 15.7166

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.8824, 16.8937, 13.1188 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(99, 120, 94) looks like.

```
.text, #text, p{  
    color:rgb(99, 120, 94)  
}
```

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(99, 120, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 120, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 13.8824, 16.8937, 13.1188 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(99, 120, 94) }
```



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

```
.border{ border-color:rgb(99, 120, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 120, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 120, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 120, 94);  
box-shadow:4px 4px 4px 4px rgb(99, 120,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.8824, 16.8937, 13.1188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 120, 94) }
```

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

```
.background{ background-color: rgb(99, 120,  
94) }
```

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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