

Converting Colors

XYZ(12.8012, 17.7160, 13.8918)

Have a look what the booklet for
XYZ(12.8012, 17.7160, 13.8918)
contains.

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Color

**XYZ(12.8911, 17.8607,
13.8344)**

Conversions

Conversions Part 1

Format	Color
Hex	4D8060
RGB	77, 128, 96
RGB Percent	30%, 50%, 38%
CMY	0.6980, 0.4980, 0.6235
CMYK	0.40, 0.00, 0.25, 0.50
HSL	142°, 25%, 40%
HSV	142°, 40%, 50%
XYZ	12.8911, 17.8607, 13.8344
YIQ	109.1030, -20.1240, -20.7640

Conversions

Conversions Part 2

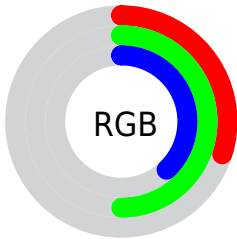
Format	Color
R_{YB}	77, 114, 128
Decimal	5079136
CIE _{Lab}	49.33, -24.69, 12.09
CIE _{LCh}	49, 27.487, 153.914
Yxy	17.8607, 0.2891, 0.4006
Android (android.graphics.Color)	4283269216 (0xFF4D8060)
YUV	109.1030, -6.4598, -28.1543
Hunter-Lab	42.2619, -19.5107, 10.1748

Details

The XYZ color **12.8911, 17.8607, 13.8344** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **14.3169, 11.0015, 15.8377**, and the grayscale version is **14.5873, 15.3470, 16.7129**.

A 20% lighter version of the original color is **30.6924, 39.7435, 33.6574**, and **3.7521, 5.9121, 3.9610** is the 20% darker color. If you saturate the color by 10%, you get **11.6072, 17.2399, 11.9418**, and if you desaturate by 10%, it is **14.4171, 18.6029, 15.9364**.

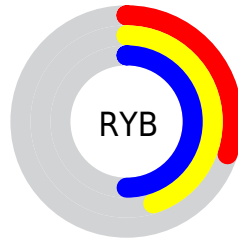
Distribution



Red (30%)

Green (50%)

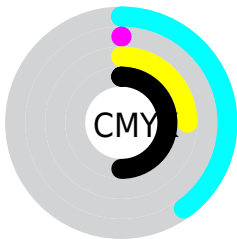
Blue (38%)



Red (30%)

Yellow (45%)

Blue (50%)

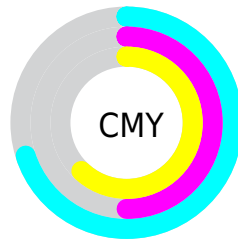


Cyan (40%)

Magenta (0%)

Yellow (25%)

Black (50%)



Cyan (70%)

Magenta (50%)

Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8911, 17.8607, 13.8344 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 12.8911, 17.8607, 13.8344 by changing the saturation by 10% instead.

■ 12.8911, 17.8607,
13.8344

■ 12.8911, 17.8607,
13.8344

203.8703,
240.0847, 227.5907

■ 7.4301, 10.8500,
7.8681

■ 30.7110, 39.7998,
33.5078

■ 3.7812, 5.9661,
3.9241

■ 43.8006, 55.4971,
48.0520

■ 1.5791, 2.8245,
1.5838

■ 60.1637, 74.8586,
66.2926

■ 0.3787, 1.0408,
0.2792

■ 80.1658, 98.2688,
88.6482

■ 0.0000, 0.0000,
0.0000

■ 104.1721,
126.1122, 115.5372

132.5481,

158.7730, 147.3783

165.6590,
196.6357, 184.5899

■ 12.8911, 17.8607,
13.8344

■ 12.8911, 17.8607,
13.8344

■ 11.6072, 17.2399,
11.9418

■ 14.4171, 18.6029,
15.9364

■ 10.5507, 16.7316,
10.2509

■ 16.1957, 19.4704,
18.2527

■ 9.7078, 16.3293,
8.7551


■ 18.2388, 20.4696,
20.7897


■ 9.0623, 16.0248,
7.4473


■ 20.5568, 21.6058,
23.5531


■ 8.5955, 15.8086,
6.3196


■ 23.1598, 22.8841,
26.5485


 8.2516, 15.6522,
5.3622

 26.0571, 24.3092,
29.7811

 8.2466, 15.6499,
5.3486

 29.2579, 25.8857,
33.2560

 32.7708, 27.6179,
36.9782

 36.6040, 29.5100,
40.9525

Harmonies

Analogous

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



14.3506, 17.8607, 9.8631



12.8911, 17.8607, 13.8344



12.4836, 17.8607, 20.4353

Triad

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



12.8911, 17.8607, 13.8344



17.3176, 17.8607, 37.3908



21.4450, 17.8607, 12.5360

Complementary

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



12.8911, 17.8607, 13.8344



14.3169, 11.0015, 15.8377

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.



22.4346, 17.8607, 18.4916



12.8911, 17.8607, 13.8344



19.9036, 17.8607, 33.8173

Square

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



12.8911, 17.8607, 13.8344



14.8825, 17.8607, 35.2421



21.8439, 17.8607, 26.4038



19.2573, 17.8607, 9.2579

Rectangle

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



12.8911, 17.8607, 13.8344



12.8249, 17.8607, 25.8084



21.8439, 17.8607, 26.4038



21.9383, 17.8607, 14.2280

Sweetspot

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



12.8916, 17.8614, 13.8348



31.1921, 35.5886, 35.4793



15.4030, 19.2453, 9.9243



7.2131, 8.2883, 8.1961



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.



12.8916, 17.8614, 13.8348



20.5885, 30.4261, 21.2587



14.2438, 18.4023, 20.9556



4.3371, 4.8432, 4.9466



8.1773, 15.5175, 5.3066



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.3169, 11.0015, 15.8377



23.4683, 16.5467, 25.2907



13.1489, 10.5343, 9.6871



4.4323, 4.3861, 5.0810



10.2751, 5.1297, 8.0382



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8911, 17.8607, 13.8344 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 12.8911, 17.8607, 13.8344 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

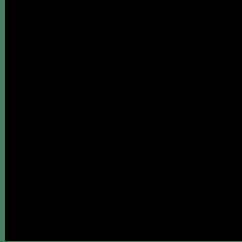
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.8911, 17.8607, 13.8344

Background



This preview shows how black text looks on a background with the XYZ color 12.8911, 17.8607, 13.8344.



This preview shows how white text looks on a background with the XYZ color 12.8911, 17.8607,

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

12.8911, 17.8607, 13.8344

Protanopia

16.5618, 17.7630, 12.4532

Deuteranopia

17.8778, 17.5575, 14.2511



Tritanopia

15.0629, 17.7907, 24.8303

Trichromacy



Original Color

12.8911, 17.8607, 13.8344

Protanomaly

14.8766, 17.5909, 12.9672

Deuteranomaly

15.4931, 17.3494, 14.0875

Tritanomaly

14.2035, 17.8171, 20.4597

Monochromacy



Original Color

12.8911, 17.8607, 13.8344

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.6738, 16.0316, 15.4704

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8911, 17.8607, 13.8344 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(77, 128, 96)` looks like.

```
.text, #text, p{  
    color:rgb(77, 128, 96)  
}
```

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(77, 128, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 128, 96) }
```

Border

The CSS property to change the border of an element to XYZ 12.8911, 17.8607, 13.8344 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(77, 128, 96) }
```


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

```
.border{ border-color:rgb(77, 128, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 128, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 128, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 128, 96);  
box-shadow:4px 4px 4px 4px rgb(77, 128,  
96) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8911, 17.8607, 13.8344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 128, 96) }
```

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

```
.background{ background-color: rgb(77, 128,  
96) }
```

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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