

Converting Colors

XYZ(11.9997, 17.4518, 18.3501)

Have a look what the booklet for
XYZ(11.9997, 17.4518, 18.3501)
contains.

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Color

**XYZ(12.0498, 17.5211,
18.3696)**

Conversions

Conversions Part 1

Format	Color
Hex	308171
RGB	48, 129, 113
RGB Percent	19%, 51%, 44%
CMY	0.8118, 0.4941, 0.5569
CMYK	0.63, 0.00, 0.12, 0.49
HSL	168°, 46%, 35%
HSV	168°, 63%, 51%
XYZ	12.0498, 17.5211, 18.3696
YIQ	102.9570, -43.1400, -22.1480

Conversions

Conversions Part 2

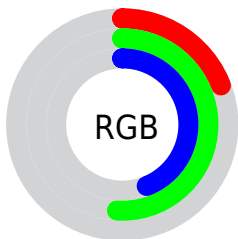
Format	Color
R_{YB}	48, 93, 129
Decimal	3178865
CIE _{Lab}	48.91, -28.61, 1.40
CIE _{LCh}	49, 28.640, 177.195
Yxy	17.5211, 0.2513, 0.3655
Android (android.graphics.Color)	4281368945 (0xFF308171)
YUV	102.9570, 4.9512, -48.1973
Hunter-Lab	41.8582, -21.8668, 3.2812

Details

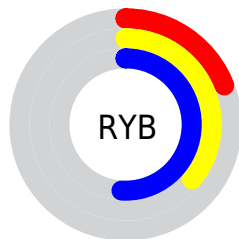
The XYZ color **12.0498, 17.5211, 18.3696** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **11.0362, 7.1517, 5.6499**, and the grayscale version is **12.8767, 13.5473, 14.7530**.

A 20% lighter version of the original color is **29.1130, 39.0561, 41.6015**, and **3.7501, 5.9736, 5.9564** is the 20% darker color. If you saturate the color by 10%, you get **11.3864, 17.1959, 17.6004**, and if you desaturate by 10%, it is **12.8953, 17.9406, 19.1691**.

Distribution



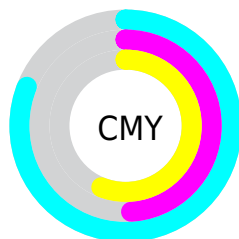
- Red (19%)
- Green (51%)
- Blue (44%)



- Red (19%)
- Yellow (36%)
- Blue (51%)



- Cyan (63%)
- Magenta (0%)
- Yellow (12%)
- Black (49%)



- Cyan (81%)
- Magenta (49%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0498, 17.5211, 18.3696 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 12.0498, 17.5211, 18.3696 by changing the saturation by 10% instead.

■ 12.0498, 17.5211,
18.3696

■ 12.0498, 17.5211,
18.3696

■ 198.4979,
238.1577, 255.2518

■ 6.8500, 10.6067,
11.0435

■ 29.2018, 39.2196,
41.4885

■ 3.4140, 5.8030,
5.9816

■ 41.8848, 54.7725,
58.1184

■ 1.3763, 2.7257,
2.7653

■ 57.7930, 73.9736,
78.6866

■ 0.2392, 0.9903,
0.9761

■ 77.2916, 97.2075,
103.6118

■ 0.0000, 0.0000,
0.0000

■ 100.7460,
124.8584, 133.3123

■ 128.5216,

157.3109, 168.2068

160.9838,
194.9491, 208.7138

■ 12.0498, 17.5211,
18.3696

■ 12.0498, 17.5211,
18.3696

■ 11.3864, 17.1959,
17.6004

■ 12.8953, 17.9406,
19.1691

■ 10.8876, 16.9546,
16.8594

■ 13.9353, 18.4594,
19.9986

■ 10.5351, 16.7883,
16.1459

■ 15.1829, 19.0849,
20.8591

■ 10.3248, 16.6908,
15.6462

■ 16.6497, 19.8228,
21.7515

■ 18.3463, 20.6787,
22.6763

■ 20.2826, 21.6577,
23.6341

■ 22.4681, 22.7647,
24.6257

■ 24.9116, 24.0042,
25.6514

■ 27.6215, 25.3805,
26.7120

Harmonies

Analogous

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



12.7141, 17.5211, 12.1917



12.0498, 17.5211, 18.3696



12.5061, 17.5211, 26.5844

Triad

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



12.0498, 17.5211, 18.3696



19.1015, 17.5211, 35.2950



19.5805, 17.5211, 9.2251

Complementary

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



12.0498, 17.5211, 18.3696



11.0362, 7.1517, 5.6499

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.



21.6287, 17.5211, 13.1363



12.0498, 17.5211, 18.3696



21.3322, 17.5211, 28.1637

Square

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



12.0498, 17.5211, 18.3696



16.4042, 17.5211, 37.7639



22.3012, 17.5211, 19.8034



16.9048, 17.5211, 7.8693

Rectangle

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



12.0498, 17.5211, 18.3696



13.4143, 17.5211, 31.9667



22.3012, 17.5211, 19.8034



20.3756, 17.5211, 10.2233

Sweetspot

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



12.0503, 17.5218, 18.3700



30.7840, 35.9855, 39.4979



10.5117, 17.0113, 5.5261



6.8085, 8.0648, 8.8507



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.



12.0503, 17.5218, 18.3700



20.0016, 30.6042, 30.9847



10.2030, 12.2561, 22.5975



4.4112, 4.8728, 5.3364



10.0679, 16.2738, 15.2624



0.0000, 0.0000, 0.0000

Inverse Universe

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



11.0362, 7.1517, 5.6499



18.0565, 10.4244, 6.3722



11.9241, 9.5547, 4.0124



4.3598, 4.3571, 4.6993



9.0046, 4.6215, 1.3478



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.0498, 17.5211, 18.3696 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 12.0498, 17.5211, 18.3696 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 12.0498, 17.5211, 18.3696

Background



This preview shows how black text looks on a background with the XYZ color 12.0498, 17.5211, 18.3696.

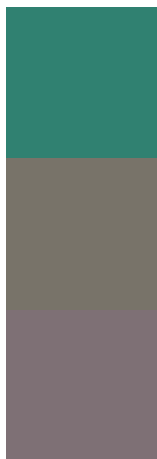


This preview shows how white text looks on a background with the XYZ color 12.0498, 17.5211,

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

12.0498, 17.5211, 18.3696

Protanopia

16.4263, 17.2745, 15.8331

Deuteranopia

17.6092, 17.3083, 19.2424



Tritanopia

13.5921, 17.5691, 25.9674

Trichromacy



Original Color

12.0498, 17.5211, 18.3696

Protanomaly

14.0393, 16.8953, 16.7085

Deuteranomaly

14.6678, 16.8145, 18.9954

Tritanomaly

13.0070, 17.5215, 23.1185

Monochromacy



Original Color

12.0498, 17.5211, 18.3696

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.0153, 14.4889, 16.0733

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0498, 17.5211, 18.3696 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(48, 129, 113)` looks like.

```
.text, #text, p{  
  color:rgb(48, 129, 113)  
}
```

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(48, 129, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 129, 113) }
```

Border

The CSS property to change the border of an element to XYZ 12.0498, 17.5211, 18.3696 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(48, 129, 113) }
```


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

```
.border{ border-color:rgb(48, 129, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 129, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 129, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 129, 113);  
box-shadow:4px 4px 4px 4px rgb(48, 129,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0498, 17.5211, 18.3696 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 129, 113) }
```

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

```
.background{ background-color: rgb(48, 129,  
113) }
```

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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