

Converting Colors

XYZ(12.5074, 20.3927, 12.1158)

Have a look what the booklet for
XYZ(12.5074, 20.3927, 12.1158)
contains.

XYZ(12.5200, 20.3997, 12.0818)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.5200, 20.3997,
12.0818)**

Conversions

Conversions Part 1

Format	Color
Hex	328D56
RGB	50, 141, 86
RGB Percent	20%, 55%, 34%
CMY	0.8039, 0.4470, 0.6627
CMYK	0.65, 0.00, 0.39, 0.45
HSL	144°, 48%, 37%
HSV	144°, 65%, 55%
XYZ	12.5200, 20.3997, 12.0818
YIQ	107.5210, -36.5810, -36.3970

Conversions

Conversions Part 2

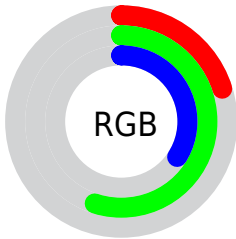
Format	Color
RYB	50, 115, 141
Decimal	3312982
CIELab	52.29, -39.93, 21.63
CIELCh	52, 45.413, 151.559
Yxy	20.3997, 0.2782, 0.4533
Android (android.graphics.Color)	4281503062 (0xFF328D56)
YUV	107.5210, -10.6099, -50.4459
Hunter-Lab	45.1660, -29.5604, 15.7563

Details

The XYZ color **12.5200, 20.3997, 12.0818** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **14.6756, 8.9643, 14.3222**, and the grayscale version is **14.1564, 14.8936, 16.2192**.

A 20% lighter version of the original color is **29.9029, 43.8720, 30.1846**, and **4.0392, 7.4655, 3.2356** is the 20% darker color. If you saturate the color by 10%, you get **11.6059, 19.9664, 10.3525**, and if you desaturate by 10%, it is **13.6902, 20.9615, 14.0378**.

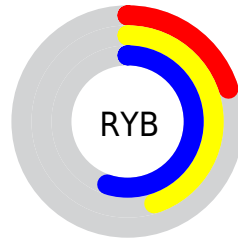
Distribution



Red (20%)

Green (55%)

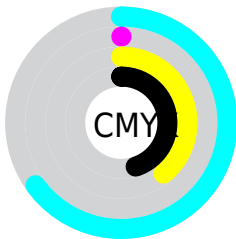
Blue (34%)



Red (20%)

Yellow (45%)

Blue (55%)

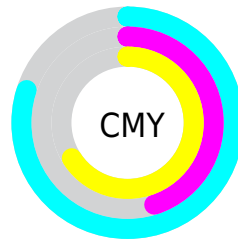


Cyan (65%)

Magenta (0%)

Yellow (39%)

Black (45%)



Cyan (80%)

Magenta (45%)

Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5200, 20.3997, 12.0818 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 12.5200, 20.3997, 12.0818 by changing the saturation by 10% instead.

■ 12.5200, 20.3997,
12.0818

■ 12.5200, 20.3997,
12.0818

201.5185,
254.0708, 215.9432

■ 7.1736, 12.6859,
6.6762

■ 30.0474, 44.0863,
30.3106

■ 3.6182, 7.2126,
3.1851

■ 42.9591, 60.8279,
43.9709

■ 1.4885, 3.5954,
1.1899

■ 59.1233, 81.3476,
61.2199

■ 0.3180, 1.4499,
0.0000

■ 78.9052, 106.0297,
82.4760

■ 0.0000, 0.2531,
0.0000

■ 102.6704,
135.2587, 108.1578

■ 0.0000, 0.0000,
0.0000

■ 130.7841,

169.4190, 138.6840

163.6117,
208.8949, 174.4729

■ 12.5200, 20.3997,
12.0818

■ 12.5200, 20.3997,
12.0818

■ 11.6059, 19.9664,
10.3525

■ 13.6902, 20.9615,
14.0378

■ 10.9246, 19.6479,
8.8399

■ 15.1343, 21.6589,
16.2271

■ 10.4488, 19.4310,
7.5354

■ 16.8699, 22.5017,
18.6577

■ 10.2337, 19.3338,
6.9057

■ 18.9128, 23.4977,
21.3369

■ 21.2778, 24.6543,
24.2715

■ 23.9783, 25.9786,
27.4683

■ 27.0274, 27.4769,
30.9337

■ 30.4372, 29.1554,
34.6737

■ 34.2191, 31.0200,
38.6943

Harmonies

Analogous

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



15.0612, 20.3997, 6.7202



12.5200, 20.3997, 12.0818



11.7305, 20.3997, 22.9185

Triad

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



12.5200, 20.3997, 12.0818



19.6345, 20.3997, 59.0852



28.0861, 20.3997, 11.2925

Complementary

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



12.5200, 20.3997, 12.0818



14.6756, 8.9643, 14.3222

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.



29.8155, 20.3997, 21.5198



12.5200, 20.3997, 12.0818



24.4760, 20.3997, 52.1002

Square

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



12.5200, 20.3997, 12.0818



15.4215, 20.3997, 53.3446



28.3999, 20.3997, 36.8392



23.9853, 20.3997, 6.4099

Rectangle

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



12.5200, 20.3997, 12.0818



12.1829, 20.3997, 33.0585



28.3999, 20.3997, 36.8392



28.9911, 20.3997, 14.0425

Sweetspot

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



12.5205, 20.4005, 12.0823



35.9677, 43.1049, 40.8478



16.0590, 22.3522, 6.4859



7.7981, 9.5125, 8.8296



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.



12.5205, 20.4005, 12.0823



20.2336, 35.4968, 17.3787



14.8959, 21.3507, 24.5911



5.4257, 6.0625, 6.2077



9.3383, 17.6312, 6.3355



0.0996, 0.1727, 0.1150

Inverse Universe

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



14.6756, 8.9643, 14.3222



24.3824, 13.3631, 21.6039



12.9577, 8.2772, 5.2760



5.5371, 5.4754, 6.3264



11.5269, 5.7678, 8.4257



0.1211, 0.0595, 0.1379

Previews

White Background



This preview shows how the XYZ color 12.5200, 20.3997, 12.0818 looks on a white background.

Color Contrast Check

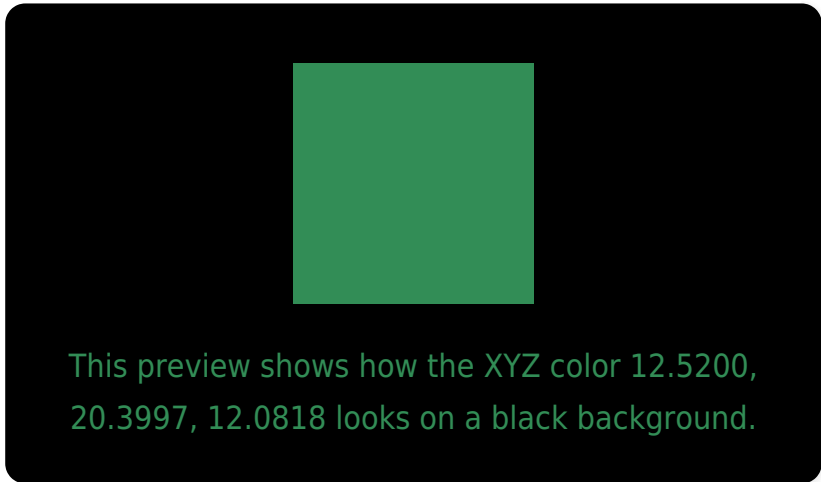
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.5200, 20.3997, 12.0818

Background



This preview shows how black text looks on a background with the XYZ color 12.5200, 20.3997, 12.0818.



This preview shows how white text looks on a background with the XYZ color 12.5200, 20.3997,

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

12.5200, 20.3997, 12.0818

Protanopia

18.6106, 20.1307, 10.3019

Deuteranopia

20.5178, 20.1520, 12.7059



Tritanopia

16.0902, 20.3597, 29.8698

Trichromacy



Original Color

12.5200, 20.3997, 12.0818



Protanomaly

15.2145, 19.5175, 10.9480



Deuteranomaly

16.0746, 19.3448, 12.3379



Tritanomaly

14.5704, 20.3707, 22.2328

Monochromacy



Original Color

12.5200, 20.3997, 12.0818



Achromatopsia

14.2537, 14.9960, 16.3306



Achromatomaly

12.9472, 16.3793, 14.5357

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5200, 20.3997, 12.0818 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(50, 141, 86)` looks like.

```
.text, #text, p{  
    color:rgb(50, 141, 86)  
}
```

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(50, 141, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 141, 86) }
```

Border

The CSS property to change the border of an element to XYZ 12.5200, 20.3997, 12.0818 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(50, 141, 86) }
```


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

```
.border{ border-color:rgb(50, 141, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 141, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 141, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 141, 86);  
box-shadow:4px 4px 4px 4px rgb(50, 141,  
86) }
```

Background

The CSS property to change the background color of an element to XYZ 12.5200, 20.3997, 12.0818 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 141, 86) }
```

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

```
.background{ background-color: rgb(50, 141,  
86) }
```

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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