

Converting Colors

XYZ(12.9757, 19.7663, 5.2448)

Have a look what the booklet for
XYZ(12.9757, 19.7663, 5.2448)
contains.

XYZ(12.9507, 19.6997, 5.2177)	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(12.9507, 19.6997,
5.2177)**

Conversions

Conversions Part 1

Format	Color
Hex	558829
RGB	85, 136, 41
RGB Percent	33%, 53%, 16%
CMY	0.6667, 0.4667, 0.8392
CMYK	0.38, 0.00, 0.70, 0.47
HSL	92°, 54%, 35%
HSV	92°, 70%, 53%
XYZ	12.9507, 19.6997, 5.2177
YIQ	109.9210, 0.0990, -40.3570

Conversions

Conversions Part 2

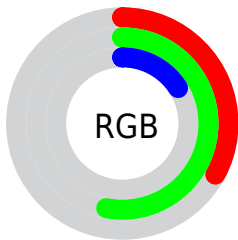
Format	Color
R_{YB}	41, 136, 92
Decimal	5605417
CIE _{Lab}	51.50, -33.64, 43.73
CIE _{LCh}	51, 55.171, 127.573
Yxy	19.6997, 0.3420, 0.5202
Android (android.graphics.Color)	4283795497 (0xFF558829)
YUV	109.9210, -33.9781, -21.8557
Hunter-Lab	44.3843, -25.5889, 24.0991

Details

The XYZ color **12.9507, 19.6997, 5.2177** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **9.6515, 5.6394, 23.8735**, and the grayscale version is **14.8932, 15.6688, 17.0633**.

A 20% lighter version of the original color is **30.8265, 43.0029, 16.8009**, and **3.9235, 6.9627, 1.1371** is the 20% darker color. If you saturate the color by 10%, you get **12.1243, 19.2971, 4.1472**, and if you desaturate by 10%, it is **13.9285, 20.1721, 6.7243**.

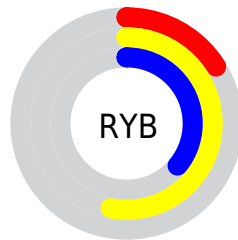
Distribution



Red (33%)

Green (53%)

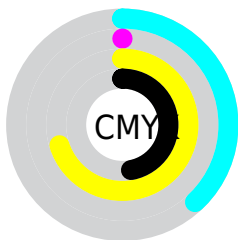
Blue (16%)



Red (16%)

Yellow (53%)

Blue (36%)

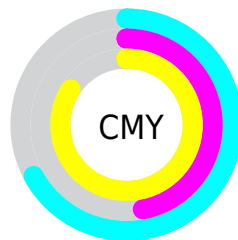


Cyan (38%)

Magenta (0%)

Yellow (70%)

Black (47%)



Cyan (67%)

Magenta (47%)

Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9507, 19.6997, 5.2177 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 12.9507, 19.6997, 5.2177 by changing the saturation by 10% instead.

■ 12.9507, 19.6997,
5.2177

■ 12.9507, 19.6997,
5.2177

204.2455,
250.2848, 160.9267

■ 7.4714, 12.1769,
2.3146

■ 30.8173, 42.9131,
16.7329

■ 3.8075, 6.8643,
0.7394

■ 43.9352, 59.3726,
26.1820

■ 1.5938, 3.3774,
0.0000

■ 60.3300, 79.5798,
38.6503

■ 0.3884, 1.3318,
0.0000

■ 80.3672, 103.9190,
54.5561

■ 0.0000, 0.1656,
0.0000

■ 104.4119,
132.7747, 74.3182

■ 0.0000, 0.0000,
0.0000

■ 132.8296,

166.5313, 98.3549

165.9857,
205.5732, 127.0849

■ 12.9507, 19.6997,
5.2177

■ 12.9507, 19.6997,
5.2177

■ 12.1243, 19.2971,
4.1472

■ 13.9285, 20.1721,
6.7243

■ 11.4370, 18.9572,
3.4648

■ 15.0659, 20.7158,
8.7060

■ 10.8616, 18.6695,
3.0369

■ 16.3721, 21.3353,
11.1989

■ 10.8536, 18.6654,
3.0308

■ 17.8549, 22.0340,
14.2351

■ 19.5217, 22.8152,
17.8443

■ 21.3795, 23.6816,
22.0538

■ 23.4346, 24.6362,
26.8893

■ 25.6934, 25.6815,
32.3751

■ 28.1616, 26.8202,
38.5340

Harmonies

Analogous

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



17.3550, 19.6997, 3.1941



12.9507, 19.6997, 5.2177



10.5026, 19.6997, 11.7889

Triad

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



12.9507, 19.6997, 5.2177



14.9469, 19.6997, 63.8130



31.3928, 19.6997, 17.6752

Complementary

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



12.9507, 19.6997, 5.2177



9.6515, 5.6394, 23.8735

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.



30.3975, 19.6997, 35.3207



12.9507, 19.6997, 5.2177



20.1631, 19.6997, 68.1295

Square

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



12.9507, 19.6997, 5.2177



11.4866, 19.6997, 45.9479



25.9994, 19.6997, 55.8529



28.4993, 19.6997, 7.7067

Rectangle

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



12.9507, 19.6997, 5.2177



9.9703, 19.6997, 20.1833



25.9994, 19.6997, 55.8529



31.5105, 19.6997, 22.7678

Sweetspot

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



12.9512, 19.7006, 5.2181



33.9079, 39.9743, 30.3550



14.3527, 12.9918, 3.8493



7.6869, 9.1800, 6.6671



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9512, 19.7006, 5.2181



20.6142, 33.6351, 6.5139



10.1770, 18.2638, 5.3886



5.1776, 5.7143, 5.3825



10.2827, 17.6709, 2.8689



0.0849, 0.1260, 0.0198

Inverse Universe

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



9.6515, 5.6394, 23.8735



14.3743, 7.1273, 41.6665



15.1692, 8.5095, 22.9741



5.0143, 5.0158, 6.3097



6.8185, 3.0292, 22.2710



0.0622, 0.0288, 0.1487

Previews

White Background



This preview shows how the XYZ color 12.9507, 19.6997, 5.2177 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



This preview shows how the XYZ color 12.9507, 19.6997, 5.2177 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 12.9507, 19.6997, 5.2177

Background



This preview shows how black text looks on a background with the XYZ color 12.9507, 19.6997, 5.2177.



This preview shows how white text looks on a background with the XYZ color 12.9507, 19.6997,

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

12.9507, 19.6997, 5.2177

Protanopia

17.6100, 19.3710, 4.5611

Deuteranopia

19.7278, 19.3796, 5.4972



Tritanopia

17.2503, 19.6375, 26.5481

Trichromacy



Original Color

12.9507, 19.6997, 5.2177

Protanomaly

15.4104, 19.1702, 4.7217

Deuteranomaly

16.4587, 18.9446, 5.2718

Tritanomaly

14.9970, 19.3043, 15.5060

Monochromacy



Original Color

12.9507, 19.6997, 5.2177

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

13.6033, 16.6162, 11.0846

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9507, 19.6997, 5.2177 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(85, 136, 41)` looks like.

```
.text, #text, p{  
    color:rgb(85, 136, 41)  
}
```

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(85, 136, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 136, 41) }
```

Border

The CSS property to change the border of an element to XYZ 12.9507, 19.6997, 5.2177 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(85, 136, 41) }
```


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

```
.border{ border-color:rgb(85, 136, 41) }
```

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

Here you see how a box with a 4 pixel rgb(85, 136, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 136, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 136, 41);  
box-shadow:4px 4px 4px 4px rgb(85, 136,  
41) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9507, 19.6997, 5.2177 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 136, 41) }
```

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

```
.background{ background-color: rgb(85, 136,  
41) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor