

Converting Colors

XYZ(12.1296, 19.8994, 5.8910)

Have a look what the booklet for
XYZ(12.1296, 19.8994, 5.8910)
contains.

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Color

**XYZ(12.1296, 19.8994,
5.8910)**

Conversions

Conversions Part 1

Format	Color
Hex	448B2F
RGB	68, 139, 47
RGB Percent	27%, 55%, 18%
CMY	0.7333, 0.4549, 0.8157
CMYK	0.51, 0.00, 0.66, 0.45
HSL	106°, 49%, 36%
HSV	106°, 66%, 55%
XYZ	12.1296, 19.8994, 5.8910
YIQ	107.2830, -12.7840, -43.6640

Conversions

Conversions Part 2

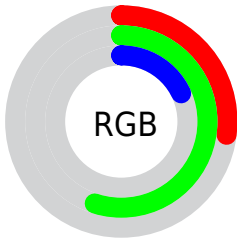
Format	Color
R_{YB}	47, 139, 118
Decimal	4492079
CIE _{Lab}	51.72, -40.18, 41.12
CIE _{LCh}	52, 57.491, 134.336
Y _{xy}	19.8994, 0.3199, 0.5248
Android (android.graphics.Color)	4282682159 (0xFF448B2F)
Y _{UV}	107.2830, -29.7195, -34.4512
Hunter-Lab	44.6087, -29.5292, 23.3963

Details

The XYZ color **12.1296, 19.8994, 5.8910** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **13.1490, 7.7494, 25.2299**, and the grayscale version is **14.1368, 14.8730, 16.1967**.

A 20% lighter version of the original color is **29.2537, 43.1406, 18.0944**, and **3.4897, 6.9794, 1.1632** is the 20% darker color. If you saturate the color by 10%, you get **11.2119, 19.4543, 4.6105**, and if you desaturate by 10%, it is **13.2746, 20.4525, 7.6493**.

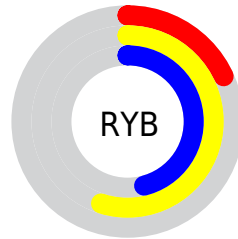
Distribution



Red (27%)

Green (55%)

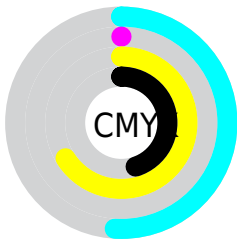
Blue (18%)



Red (18%)

Yellow (55%)

Blue (46%)

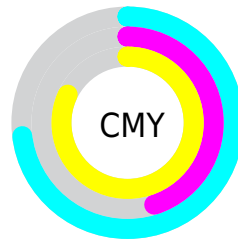


Cyan (51%)

Magenta (0%)

Yellow (66%)

Black (45%)



Cyan (73%)


Magenta (45%)


Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.1296, 19.8994, 5.8910 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 12.1296, 19.8994, 5.8910 by changing the saturation by 10% instead.


 12.1296, 19.8994,
5.8910


 12.1296, 19.8994,
5.8910


199.0138,
251.3700, 167.3666


 6.9048, 12.3219,
2.7112


 29.3457, 43.2485,
18.1780


 3.4485, 6.9633,
0.9491


 42.0678, 59.7888,
28.1222

 1.3951, 3.4392,
0.0000

 58.0197, 80.0857,
41.1584

 0.2527, 1.3651,
0.0000

 77.5668, 104.5233,
57.7050

 0.0000, 0.1908,
0.0000

 101.0744,
133.4862, 78.1806

 0.0000, 0.0000,
0.0000

 128.9078,

167.3586, 103.0036

161.4325,
206.5251, 132.5928

■ 12.1296, 19.8994,
5.8910

■ 12.1296, 19.8994,
5.8910

■ 11.2119, 19.4543,
4.6105

■ 13.2746, 20.4525,
7.6493

■ 10.5037, 19.1073,
3.7597

■ 14.6600, 21.1178,
9.9249

■ 9.9832, 18.8494,
3.2644

■ 16.2996, 21.9021,
12.7545

■ 9.8202, 18.7687,
3.1052

■ 18.2058, 22.8111,
16.1714

■ 20.3899, 23.8500,
20.2061

■ 22.8627, 25.0238,
24.8868

■ 25.6345, 26.3371,
30.2404

■ 28.7149, 27.7944,
36.2918

■ 32.1132, 29.3998,
43.0650

Harmonies

Analogous

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



16.2795, 19.8994, 3.0990



12.1296, 19.8994, 5.8910



10.0653, 19.8994, 14.1238

Triad

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



12.1296, 19.8994, 5.8910



16.0542, 19.8994, 69.4005



31.9381, 19.8994, 14.6694

Complementary

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



12.1296, 19.8994, 5.8910



13.1490, 7.7494, 25.2299

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.



31.8432, 19.8994, 31.5078



12.1296, 19.8994, 5.8910



21.8179, 19.8994, 69.8186

Square

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



12.1296, 19.8994, 5.8910



11.9939, 19.8994, 52.6128



27.8478, 19.8994, 53.5662



28.0856, 19.8994, 6.1139

Rectangle

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



12.1296, 19.8994, 5.8910



9.8158, 19.8994, 24.1779



27.8478, 19.8994, 53.5662



32.3883, 19.8994, 19.3364

Sweetspot

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



12.1301, 19.9002, 5.8914



34.7891, 41.8899, 32.9754



17.5850, 18.5423, 5.3418



7.7938, 9.5466, 7.1879



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.



12.1301, 19.9002, 5.8914



19.4582, 34.5351, 7.4758



11.5601, 19.5323, 9.2127



5.0718, 5.6597, 5.3775



8.8760, 16.9457, 2.8030



0.0699, 0.1182, 0.0191

Inverse Universe

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



13.1490, 7.7494, 25.2299



21.3257, 11.0596, 44.7537



14.7286, 8.7481, 16.9723



5.1241, 5.0724, 6.3148



9.7238, 4.5269, 22.4070



0.0772, 0.0366, 0.1494

Previews

White Background



This preview shows how the XYZ color 12.1296, 19.8994, 5.8910 looks on a white background.

Color Contrast Check

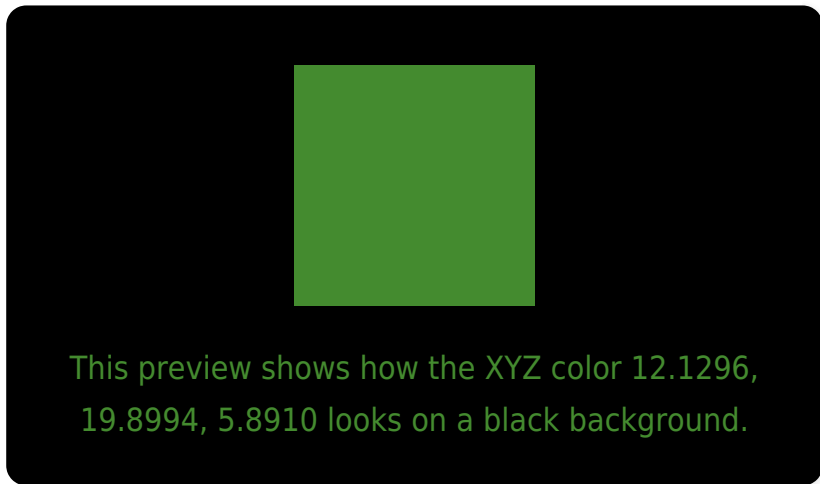
Large Text (above 18pt) WCAG AA ✓ Pass

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

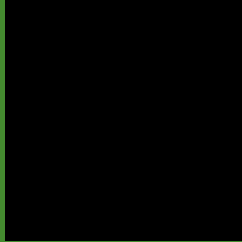
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.1296, 19.8994, 5.8910

Background



This preview shows how black text looks on a background with the XYZ color 12.1296, 19.8994, 5.8910.



This preview shows how white text looks on a background with the XYZ color 12.1296, 19.8994,

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

12.1296, 19.8994, 5.8910

Protanopia

17.8355, 19.6587, 5.1400

Deuteranopia

19.9760, 19.6643, 6.2328



Tritanopia

16.5540, 19.8371, 27.7674

Trichromacy



Original Color

12.1296, 19.8994, 5.8910

Protanomaly

14.9870, 19.3271, 5.3235

Deuteranomaly

15.8163, 18.9712, 5.9602

Tritanomaly

14.2135, 19.4779, 16.6462

Monochromacy



Original Color

12.1296, 19.8994, 5.8910

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

12.7507, 16.1767, 11.0447

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1296, 19.8994, 5.8910 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(68, 139, 47)` looks like.

```
.text, #text, p{  
    color:rgb(68, 139, 47)  
}
```

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(68, 139, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 139, 47) }
```

Border

The CSS property to change the border of an element to XYZ 12.1296, 19.8994, 5.8910 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(68, 139, 47) }
```


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

```
.border{ border-color:rgb(68, 139, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 139, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 139, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 139, 47);  
box-shadow:4px 4px 4px 4px rgb(68, 139,  
47) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1296, 19.8994, 5.8910 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 139, 47) }
```

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

```
.background{ background-color: rgb(68, 139,  
47) }
```

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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