

Converting Colors

XYZ(19.7857, 31.5869, 12.2167)

Have a look what the booklet for
XYZ(19.7857, 31.5869, 12.2167)
contains.

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Color

**XYZ(19.8685, 31.7021,
12.2797)**

Conversions

Conversions Part 1

Format	Color
Hex	57AB4E
RGB	87, 171, 78
RGB Percent	34%, 67%, 31%
CMY	0.6588, 0.3294, 0.6941
CMYK	0.49, 0.00, 0.54, 0.33
HSL	114°, 37%, 49%
HSV	114°, 54%, 67%
XYZ	19.8685, 31.7021, 12.2797
YIQ	135.2820, -20.2110, -46.7310

Conversions

Conversions Part 2

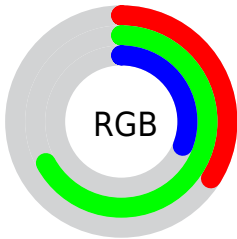
Format	Color
RYB	78, 171, 162
Decimal	5745486
CIELab	63.10, -44.19, 39.74
CIElCh	63, 59.432, 138.032
Yxy	31.7021, 0.3112, 0.4965
Android (android.graphics.Color)	4283935566 (0xFF57AB4E)
YUV	135.2820, -28.2400, -42.3433
Hunter-Lab	56.3046, -35.5449, 26.4824

Details

The XYZ color **19.8685, 31.7021, 12.2797** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **24.9772, 16.0716, 40.3155**, and the grayscale version is **23.2416, 24.4520, 26.6282**.

A 20% lighter version of the original color is **42.5869, 62.2739, 30.5444**, and **7.1140, 13.2603, 3.2832** is the 20% darker color. If you saturate the color by 10%, you get **18.0426, 30.8236, 9.3997**, and if you desaturate by 10%, it is **22.1640, 32.8061, 16.0151**.

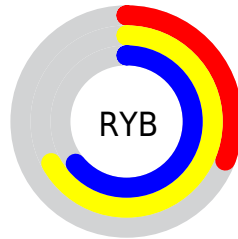
Distribution



Red (34%)

Green (67%)

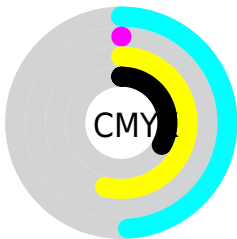
Blue (31%)



Red (31%)

Yellow (67%)

Blue (64%)

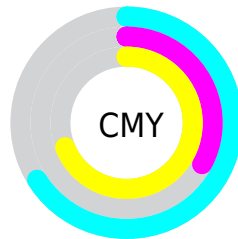


Cyan (49%)

Magenta (0%)

Yellow (54%)

Black (33%)



Cyan (66%)


Magenta (33%)


Yellow (69%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 19.8685, 31.7021, 12.2797 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 19.8685, 31.7021, 12.2797 by changing the saturation by 10% instead.


 19.8685, 31.7021,
12.2797


 19.8685, 31.7021,
12.2797


244.0495,
309.7600, 217.2915


 12.4072, 21.1341,
6.8096


 42.7022, 62.3438,
30.6755


 7.0958, 13.2220,
3.2667


 58.8054, 83.1862,
44.4383


 3.5689, 7.5816,
1.2324


 78.5198, 108.2222,
61.8024

 1.4613, 3.8284,
0.0054

 102.2110,
137.8362, 83.1863

 0.2993, 1.5781,
0.0000

 130.2442,
172.4126, 109.0087

 0.0000, 0.3427,
0.0000

162.9847,

 0.0000, 0.0000,

212.3358, 139.6880

0.0000

200.7981,
257.9901, 175.6427

■ 19.8685, 31.7021,
12.2797

■ 19.8685, 31.7021,
12.2797

■ 18.0426, 30.8236,
9.3997

■ 22.1640, 32.8061,
16.0151

■ 16.6514, 30.1513,
7.3056

■ 24.9561, 34.1455,
20.6641

■ 15.6590, 29.6694,
5.9204

■ 28.2725, 35.7343,
26.2822

■ 15.0224, 29.3576,
5.1505

■ 32.1384, 37.5843,
32.9199

■ 14.7866, 29.2421,
4.8650

■ 36.5771, 39.7066,
40.6241

■ 41.6106, 42.1115,
49.4390

■ 47.2598, 44.8091,
59.4061

■ 53.5447, 47.8086,
70.5649

■ 60.4841, 51.1190,
82.9529

Harmonies

Analogous

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



25.5126, 31.7021, 6.9317



19.8685, 31.7021, 12.2797



17.1958, 31.7021, 25.9798

Triad

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



19.8685, 31.7021, 12.2797



26.9808, 31.7021, 100.1644



47.7371, 31.7021, 22.3484

Complementary

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



19.8685, 31.7021, 12.2797



24.9772, 16.0716, 40.3155

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.



48.3258, 31.7021, 44.7482



19.8685, 31.7021, 12.2797



35.2776, 31.7021, 97.6718

Square

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



19.8685, 31.7021, 12.2797



20.7748, 31.7021, 80.1201



43.4325, 31.7021, 74.3473



41.9458, 31.7021, 10.6618

Rectangle

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



19.8685, 31.7021, 12.2797



17.0668, 31.7021, 41.2155



43.4325, 31.7021, 74.3473



48.5838, 31.7021, 28.5888

Sweetspot

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



19.8693, 31.7034, 12.2804



56.1644, 66.6430, 56.5551



31.0387, 34.9447, 12.3173



12.2081, 14.7101, 12.0668



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



19.8693, 31.7034, 12.2804



31.8176, 54.9626, 16.0735



20.8119, 31.9894, 21.3587



7.9737, 8.9750, 8.5255



11.1681, 22.0545, 3.6683



0.3332, 0.6251, 0.1031

Inverse Universe

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



24.9772, 16.0716, 40.3155



41.8483, 24.0600, 71.4403



23.8093, 15.8232, 24.2816



8.2596, 8.1081, 10.0824



15.6776, 7.4420, 29.6547



0.4577, 0.2182, 0.8260

Previews

White Background



This preview shows how the XYZ color 19.8685, 31.7021, 12.2797 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 19.8685, 31.7021, 12.2797 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 ✓ Pass

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

XYZ 19.8685, 31.7021, 12.2797

Background



This preview shows how black text looks on a background with the XYZ color 19.8685, 31.7021, 12.2797.



This preview shows how white text looks on a background with the XYZ color 19.8685, 31.7021,

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

19.8685, 31.7021, 12.2797

Protanopia

28.5464, 31.2492, 10.6580

Deuteranopia

31.7727, 31.2210, 12.9460



Tritanopia

26.3287, 31.6099, 44.7580

Trichromacy



Original Color

19.8685, 31.7021, 12.2797

Protanomaly

24.2816, 30.7797, 11.1399

Deuteranomaly

25.4730, 30.1100, 12.4519

Tritanomaly

23.2609, 31.4270, 29.2661

Monochromacy



Original Color

19.8685, 31.7021, 12.2797

Achromatopsia

23.0288, 24.2281, 26.3844

Achromatomaly

21.0984, 26.2463, 19.8736

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.8685, 31.7021, 12.2797 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(87, 171, 78)` looks like.

```
.text, #text, p{  
    color:rgb(87, 171, 78)  
}
```

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(87, 171, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 171, 78) }
```

Border

The CSS property to change the border of an element to XYZ 19.8685, 31.7021, 12.2797 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(87, 171, 78) }
```


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

```
.border{ border-color:rgb(87, 171, 78) }
```

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

Here you see how a box with a 4 pixel rgb(87, 171, 78) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 171, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 171, 78);  
box-shadow:4px 4px 4px 4px rgb(87, 171,  
78) }
```

Background

The CSS property to change the background color of an element to XYZ 19.8685, 31.7021, 12.2797 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 171, 78) }
```

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

```
.background{ background-color: rgb(87, 171,  
78) }
```

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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