

Converting Colors

XYZ(18.7820, 31.8329, 11.8689)

Have a look what the booklet for
XYZ(18.7820, 31.8329, 11.8689)
contains.

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Color

**XYZ(18.6678, 31.6603,
11.7838)**

Conversions

Conversions Part 1

Format	Color
Hex	45AD4B
RGB	69, 173, 75
RGB Percent	27%, 68%, 29%
CMY	0.7294, 0.3216, 0.7059
CMYK	0.60, 0.00, 0.57, 0.32
HSL	123°, 43%, 47%
HSV	123°, 60%, 68%
XYZ	18.6678, 31.6603, 11.7838
YIQ	130.7320, -30.5260, -52.5260

Conversions

Conversions Part 2

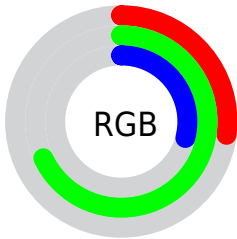
Format	Color
RYB	69, 167, 173
Decimal	4566347
CIELab	63.06, -50.14, 41.00
CIElCh	63, 64.771, 140.726
Yxy	31.6603, 0.3006, 0.5097
Android (android.graphics.Color)	4282756427 (0xFF45AD4B)
YUV	130.7320, -27.4759, -54.1390
Hunter-Lab	56.2675, -39.2474, 26.9705

Details

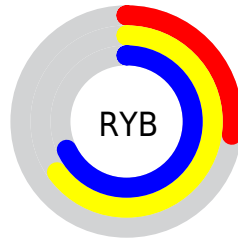
The XYZ color **18.6678, 31.6603, 11.7838** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **26.3376, 15.9310, 38.2465**, and the grayscale version is **21.5811, 22.7050, 24.7257**.

A 20% lighter version of the original color is **40.5376, 62.0570, 29.5803**, and **6.7617, 13.2596, 3.0671** is the 20% darker color. If you saturate the color by 10%, you get **17.1267, 30.9232, 9.1632**, and if you desaturate by 10%, it is **20.7112, 32.6417, 15.1755**.

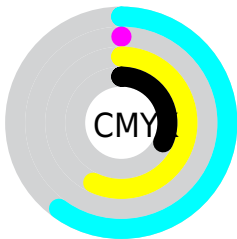
Distribution



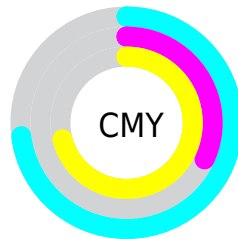
- Red (27%)
- Green (68%)
- Blue (29%)



- Red (27%)
- Yellow (65%)
- Blue (68%)



- Cyan (60%)
- Magenta (0%)
- Yellow (57%)
- Black (32%)



- Cyan (73%)
- Magenta (32%)
- Yellow (71%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.6678, 31.6603, 11.7838 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 18.6678, 31.6603, 11.7838 by changing the saturation by 10% instead.

■ 18.6678, 31.6603,
11.7838

■ 18.6678, 31.6603,
11.7838

237.5821,
309.5689, 213.8956

■ 11.5331, 21.1022,
6.4759

■ 40.6932, 62.2782,
29.7592

■ 6.4965, 13.1987,
3.0631

■ 56.3146, 83.1067,
43.2638

■ 3.1928, 7.5655,
1.1270

■ 75.4956, 108.1275,
60.3377

■ 1.2565, 3.8182,
0.0000

■ 98.6016, 137.7249,
81.3994

■ 0.1503, 1.5724,
0.0000

■ 125.9979,
172.2833, 106.8675

■ 0.0000, 0.3389,
0.0000

158.0498,

■ 0.0000, 0.0000,

212.1872, 137.1605

0.0000

195.1228,
257.8209, 172.6970

■ 18.6678, 31.6603,
11.7838

■ 18.6678, 31.6603,
11.7838

■ 17.1267, 30.9232,
9.1632

■ 20.7112, 32.6417,
15.1755

■ 16.0422, 30.4053,
7.2514

■ 23.2928, 33.8820,
19.3901

■ 15.3647, 30.0835,
5.9799

■ 26.4479, 35.3991,
24.4773

■ 14.9989, 29.9102,
5.2694

■ 30.2080, 37.2085,
30.4822

■ 34.6026, 39.3244,
37.4471

■ 39.6590, 41.7600,
45.4112

■ 45.4030, 44.5279,
54.4120

■ 51.8591, 47.6399,
64.4846

■ 59.0505, 51.1072,
75.6629

Harmonies

Analogous

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



24.4191, 31.6603, 5.9118



18.6678, 31.6603, 11.7838



16.1358, 31.6603, 27.1441

Triad

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



18.6678, 31.6603, 11.7838



27.4107, 31.6603, 109.2703



49.1622, 31.6603, 19.8424

Complementary

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



18.6678, 31.6603, 11.7838



26.3376, 15.9310, 38.2465

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.



50.4017, 31.6603, 43.0142



18.6678, 31.6603, 11.7838



36.5821, 31.6603, 103.8851

Square

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



18.6678, 31.6603, 11.7838



20.4847, 31.6603, 88.2227



45.4253, 31.6603, 75.8758



42.3134, 31.6603, 8.7088

Rectangle

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



18.6678, 31.6603, 11.7838



16.1857, 31.6603, 44.4509



45.4253, 31.6603, 75.8758



50.2953, 31.6603, 26.1121

Sweetspot

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



18.6686, 31.6616, 11.7845



55.4314, 67.2775, 56.7079



32.1249, 38.6212, 11.3918



11.5958, 14.4040, 11.6072



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.



18.6686, 31.6616, 11.7845



29.9773, 55.0477, 15.2030



21.1774, 32.6652, 24.9959



7.9225, 8.9466, 8.6171



11.0259, 21.9756, 3.9099



0.3127, 0.6137, 0.1400

Inverse Universe

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



26.3376, 15.9310, 38.2465



44.9083, 24.3579, 66.6755



22.5033, 14.3973, 18.0555



8.3168, 8.1400, 9.9792



17.5257, 8.4728, 26.2114



0.4934, 0.2381, 0.7602

Previews

White Background



This preview shows how the XYZ color 18.6678, 31.6603, 11.7838 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 18.6678, 31.6603, 11.7838 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 18.6678, 31.6603, 11.7838

Background



This preview shows how black text looks on a background with the XYZ color 18.6678, 31.6603, 11.7838.



This preview shows how white text looks on a background with the XYZ color 18.6678, 31.6603,

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

18.6678, 31.6603, 11.7838

Protanopia

28.4201, 31.1987, 9.9929

Deuteranopia

31.5422, 30.8853, 12.4826



Tritanopia

25.5498, 31.7087, 45.8481

Trichromacy



Original Color

18.6678, 31.6603, 11.7838



Protanomaly

23.2239, 30.5021, 10.6247



Deuteranomaly

24.4970, 29.8615, 12.0621



Tritanomaly

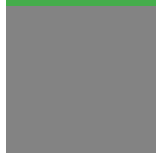
22.2252, 31.4328, 29.3218

Monochromacy



Original Color

18.6678, 31.6603, 11.7838



Achromatopsia

21.5731, 22.6966, 24.7166



Achromatomaly

19.3325, 24.8936, 18.8249

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.6678, 31.6603, 11.7838 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(69, 173, 75)` looks like.

```
.text, #text, p{  
    color:rgb(69, 173, 75)  
}
```

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(69, 173, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 173, 75) }
```

Border

The CSS property to change the border of an element to XYZ 18.6678, 31.6603, 11.7838 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(69, 173, 75) }
```


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

```
.border{ border-color:rgb(69, 173, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 173, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 173, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 173, 75);  
box-shadow:4px 4px 4px 4px rgb(69, 173,  
75) }
```

Background

The CSS property to change the background color of an element to XYZ 18.6678, 31.6603, 11.7838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 173, 75) }
```

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

```
.background{ background-color: rgb(69, 173,  
75) }
```

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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