

Converting Colors

XYZ(19.9708, 33.1880, 19.1660)

Have a look what the booklet for
XYZ(19.9708, 33.1880, 19.1660)
contains.

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Color

**XYZ(20.0633, 33.3757,
19.2946)**

Conversions

Conversions Part 1

Format	Color
Hex	39B16B
RGB	57, 177, 107
RGB Percent	22%, 69%, 42%
CMY	0.7765, 0.3059, 0.5804
CMYK	0.68, 0.00, 0.40, 0.31
HSL	145°, 51%, 46%
HSV	145°, 68%, 69%
XYZ	20.0633, 33.3757, 19.2946
YIQ	133.1400, -49.0500, -47.2100

Conversions

Conversions Part 2

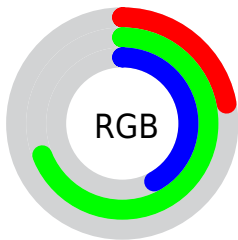
Format	Color
RYB	57, 142, 177
Decimal	3780971
CIELab	64.46, -49.12, 26.39
CIELCh	64, 55.761, 151.748
Yxy	33.3757, 0.2758, 0.4589
Android (android.graphics.Color)	4281971051 (0xFF39B16B)
YUV	133.1400, -12.8870, -66.7748
Hunter-Lab	57.7717, -39.1099, 20.6385

Details

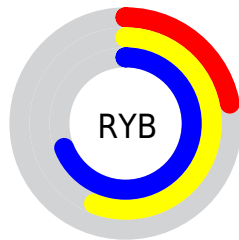
The XYZ color **20.0633, 33.3757, 19.2946** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **23.4264, 13.8063, 21.5098**, and the grayscale version is **22.4043, 23.5711, 25.6689**.

A 20% lighter version of the original color is **43.1520, 65.2004, 43.1115**, and **7.8467, 14.4714, 6.3827** is the 20% darker color. If you saturate the color by 10%, you get **18.7136, 32.7399, 16.5635**, and if you desaturate by 10%, it is **21.8313, 34.2215, 22.3854**.

Distribution



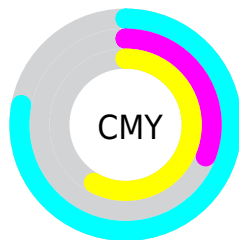
- Red (22%)
- Green (69%)
- Blue (42%)



- Red (22%)
- Yellow (56%)
- Blue (69%)



- Cyan (68%)
- Magenta (0%)
- Yellow (40%)
- Black (31%)





- Cyan (78%)
- Magenta (31%)
- Yellow (58%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.0633, 33.3757, 19.2946 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 20.0633, 33.3757, 19.2946 by changing the saturation by 10% instead.


 20.0633, 33.3757,
19.2946


 20.0633, 33.3757,
19.2946


245.0846,
317.3393, 260.5470


 12.5496, 22.4144,
11.7044


 43.0264, 64.9616,
43.0746


 7.1940, 14.1617,
6.4226


 59.2065, 86.3551,
60.1015


 3.6311, 8.2332,
3.0308


 79.0062, 111.9947,
81.1110

 1.4956, 4.2445,
1.1104

 102.7907,
142.2649, 106.5217

 0.3229, 1.8113,
0.0000

 130.9255,
177.5501, 136.7521

 0.0000, 0.4942,
0.0000

163.7758,

 0.0000, 0.0000,

218.2346, 172.2208

0.0000

201.7071,
264.7029, 213.3462

■ 20.0633, 33.3757,
19.2946

■ 20.0633, 33.3757,
19.2946

■ 18.7136, 32.7399,
16.5635

■ 21.8313, 34.2215,
22.3854

■ 17.7388, 32.2892,
14.1760

■ 24.0501, 35.2910,
25.8466

■ 17.0770, 31.9929,
12.1174

■ 26.7518, 36.6015,
29.6911

■ 16.9504, 31.9366,
11.7057

■ 29.9645, 38.1672,
33.9305

■ 33.7145, 40.0014,
38.5760

■ 38.0258, 42.1164,
43.6382

■ 42.9212, 44.5237,
49.1274

■ 48.4221, 47.2340,
55.0534

■ 54.5487, 50.2577,
61.4258

Harmonies

Analogous

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



24.3334, 33.3757, 10.3627



20.0633, 33.3757, 19.2946



18.7551, 33.3757, 37.6940

Triad

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



20.0633, 33.3757, 19.2946



32.1917, 33.3757, 100.0929



46.5937, 33.3757, 17.8156

Complementary

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



20.0633, 33.3757, 19.2946



23.4264, 13.8063, 21.5098

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.



49.6054, 33.3757, 35.0198



20.0633, 33.3757, 19.2946



40.4740, 33.3757, 87.7907

Square

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



20.0633, 33.3757, 19.2946



25.0173, 33.3757, 90.2200



47.1995, 33.3757, 61.2788



39.5302, 33.3757, 9.7942

Rectangle

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



20.0633, 33.3757, 19.2946



19.5277, 33.3757, 55.1154



47.1995, 33.3757, 61.2788



48.1620, 33.3757, 22.4019

Sweetspot

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



20.0642, 33.3771, 19.2954



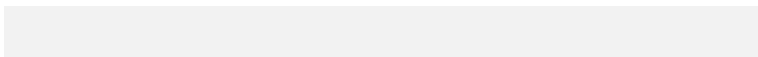
58.5761, 70.7554, 66.8980



25.5150, 36.4083, 9.5538



12.2895, 15.1357, 13.9993



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



20.0642, 33.3771, 19.2954



32.6346, 58.2245, 27.6271



24.2020, 35.0322, 41.0851



8.5309, 9.5469, 9.7896



12.3095, 23.1498, 8.6328



0.4167, 0.7401, 0.4262

Inverse Universe

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



23.4264, 13.8063, 21.5098



39.0300, 20.7809, 31.6788



20.6696, 12.7036, 6.9931



8.6973, 8.5856, 9.9042



14.9506, 7.4978, 10.1657



0.4987, 0.2472, 0.4687

Previews

White Background



This preview shows how the XYZ color 20.0633, 33.3757, 19.2946 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 20.0633, 33.3757, 19.2946 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 20.0633, 33.3757, 19.2946

Background



This preview shows how black text looks on a background with the XYZ color 20.0633, 33.3757, 19.2946.



This preview shows how white text looks on a background with the XYZ color 20.0633, 33.3757,

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

20.0633, 33.3757, 19.2946

Protanopia

30.2881, 32.7595, 16.2821

Deuteranopia

33.5519, 32.9001, 20.5016



Tritanopia

26.0134, 33.2217, 49.2973

Trichromacy



Original Color

20.0633, 33.3757, 19.2946



Protanomaly

24.3482, 31.7232, 17.1518



Deuteranomaly

25.7486, 31.3472, 19.7325



Tritanomaly

23.3033, 32.9482, 36.1418

Monochromacy



Original Color

20.0633, 33.3757, 19.2946



Achromatopsia

22.2940, 23.4551, 25.5426



Achromatomaly

20.2112, 25.9534, 23.0130

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0633, 33.3757, 19.2946 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(57, 177, 107)` looks like.

```
.text, #text, p{  
    color:rgb(57, 177, 107)  
}
```

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(57, 177, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(57, 177, 107) }
```

Border

The CSS property to change the border of an element to XYZ 20.0633, 33.3757, 19.2946 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(57, 177, 107) }
```


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

```
.border{ border-color:rgb(57, 177, 107) }
```

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

Here you see how a box with a 4 pixel rgb(57, 177, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(57, 177, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(57, 177, 107);  
box-shadow:4px 4px 4px 4px rgb(57, 177,  
107) }
```

Background

The CSS property to change the background color of an element to XYZ 20.0633, 33.3757, 19.2946 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(57, 177, 107) }
```

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

```
.background{ background-color: rgb(57, 177,  
107) }
```

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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