

Converting Colors

XYZ(20.4074, 31.7000, 13.1150)

Have a look what the booklet for
XYZ(20.4074, 31.7000, 13.1150)
contains.

XYZ(20.4119, 31.6858, 13.0228)	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(20.4119, 31.6858,
13.0228)**

Conversions

Conversions Part 1

Format	Color
Hex	5DAA52
RGB	93, 170, 82
RGB Percent	36%, 67%, 32%
CMY	0.6353, 0.3333, 0.6784
CMYK	0.45, 0.00, 0.52, 0.33
HSL	113°, 35%, 49%
HSV	113°, 52%, 67%
XYZ	20.4119, 31.6858, 13.0228
YIQ	136.9450, -17.6440, -43.6920

Conversions

Conversions Part 2

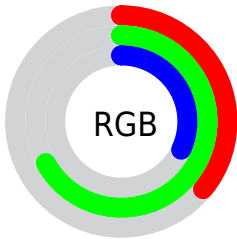
Format	Color
RYB	82, 170, 159
Decimal	6138450
CIELab	63.08, -41.45, 37.81
CIELCh	63, 56.103, 137.630
Yxy	31.6858, 0.3134, 0.4866
Android (android.graphics.Color)	4284328530 (0xFF5DAA52)
YUV	136.9450, -27.0879, -38.5398
Hunter-Lab	56.2901, -33.7802, 25.6863

Details

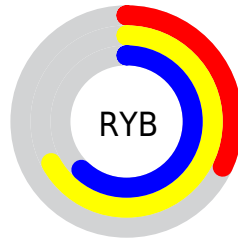
The XYZ color **20.4119, 31.6858, 13.0228** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **24.5727, 16.3089, 39.8847**, and the grayscale version is **23.8617, 25.1043, 27.3386**.

A 20% lighter version of the original color is **43.6427, 62.3821, 31.9310**, and **7.3634, 13.2075, 3.6000** is the 20% darker color. If you saturate the color by 10%, you get **18.4817, 30.7574, 9.9640**, and if you desaturate by 10%, it is **22.7969, 32.8320, 16.9408**.

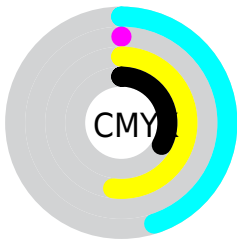
Distribution



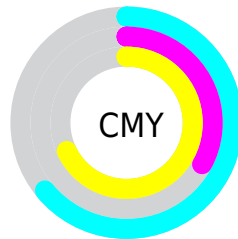
- Red (36%)
- Green (67%)
- Blue (32%)



- Red (32%)
- Yellow (67%)
- Blue (62%)



- Cyan (45%)
- Magenta (0%)
- Yellow (52%)
- Black (33%)



- Cyan (64%)
- Magenta (33%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4119, 31.6858, 13.0228 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 20.4119, 31.6858, 13.0228 by changing the saturation by 10% instead.

■ 20.4119, 31.6858,
13.0228

■ 20.4119, 31.6858,
13.0228

246.9276,
309.6855, 222.2767

■ 12.8048, 21.1216,
7.3133

■ 43.6054, 62.3182,
32.0365

■ 7.3703, 13.2129,
3.5774

■ 59.9225, 83.1552,
46.1779

■ 3.7432, 7.5753,
1.3965

■ 79.8737, 108.1853,
63.9669

■ 1.5579, 3.8244,
0.1390

■ 103.8242,
137.7928, 85.8222

■ 0.3647, 1.5758,
0.0000

■ 132.1395,
172.3622, 112.1623

■ 0.0000, 0.3412,
0.0000

165.1850,

■ 0.0000, 0.0000,

212.2779, 143.4057

0.0000

203.3259,
257.9241, 179.9710

■ 20.4119, 31.6858,
13.0228

■ 20.4119, 31.6858,
13.0228

■ 18.4817, 30.7574,
9.9640

■ 22.7969, 32.8320,
16.9408

■ 16.9747, 30.0291,
7.6980

■ 25.6608, 34.2044,
21.7736

■ 15.8593, 29.4872,
6.1521

■ 29.0289, 35.8158,
27.5747

■ 15.0979, 29.1140,
5.2393

■ 32.9240, 37.6769,
34.3929

■ 14.6899, 28.9129,
4.8065

■ 37.3674, 39.7977,
42.2735

■ 42.3792, 42.1878,
51.2593

■ 47.9787, 44.8560,
61.3907

■ 54.1841, 47.8109,
72.7059

■ 61.0129, 51.0609,
85.2415

Harmonies

Analogous

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



25.8335, 31.6858, 7.7487



20.4119, 31.6858, 13.0228



17.8013, 31.6858, 26.1575

Triad

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



20.4119, 31.6858, 13.0228



27.0417, 31.6858, 95.0583



46.6275, 31.6858, 23.1429

Complementary

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



20.4119, 31.6858, 13.0228



24.5727, 16.3089, 39.8847

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.



47.1018, 31.6858, 44.4519



20.4119, 31.6858, 13.0228



34.8483, 31.6858, 93.0843

Square

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



20.4119, 31.6858, 13.0228



21.1654, 31.6858, 76.4983



42.4927, 31.6858, 71.8953



41.2905, 31.6858, 11.6322

Rectangle

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



20.4119, 31.6858, 13.0228



17.6513, 31.6858, 40.4693



42.4927, 31.6858, 71.8953



47.3902, 31.6858, 29.1494

Sweetspot

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



20.4127, 31.6871, 13.0235



56.4152, 66.7723, 56.5669



30.3744, 33.7016, 12.8873



12.2692, 14.7416, 12.0696



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.



20.4127, 31.6871, 13.0235



33.1157, 55.6030, 17.4369



20.9079, 31.7657, 21.0296



7.5207, 8.4510, 8.0241



10.8328, 21.2818, 3.5368



0.2892, 0.5310, 0.0873

Inverse Universe

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



24.5727, 16.3089, 39.8847



41.4418, 24.5846, 71.5629



24.1642, 16.4087, 25.8384



7.7483, 7.6184, 9.4805



14.4540, 6.8348, 28.5329



0.3765, 0.1791, 0.6954

Previews

White Background



This preview shows how the XYZ color 20.4119, 31.6858, 13.0228 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 20.4119, 31.6858, 13.0228 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 20.4119, 31.6858, 13.0228

Background



This preview shows how black text looks on a background with the XYZ color 20.4119, 31.6858, 13.0228.



This preview shows how white text looks on a background with the XYZ color 20.4119, 31.6858,

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

20.4119, 31.6858, 13.0228

Protanopia

28.6812, 31.3031, 11.3679

Deuteranopia

31.8944, 31.2697, 13.5871



Tritanopia

26.6692, 31.5382, 44.2170

Trichromacy



Original Color

20.4119, 31.6858, 13.0228

Protanomaly

24.7578, 31.0091, 11.8882

Deuteranomaly

26.1842, 30.4585, 13.3031

Tritanomaly

23.7180, 31.3874, 29.6193

Monochromacy



Original Color

20.4119, 31.6858, 13.0228

Achromatopsia

23.7775, 25.0158, 27.2422

Achromatomaly

21.8435, 26.8442, 20.8598

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4119, 31.6858, 13.0228 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(93, 170, 82)` looks like.

```
.text, #text, p{  
    color:rgb(93, 170, 82)  
}
```

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(93, 170, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 170, 82) }
```

Border

The CSS property to change the border of an element to XYZ 20.4119, 31.6858, 13.0228 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(93, 170, 82) }
```


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

```
.border{ border-color:rgb(93, 170, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 170, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 170, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 170, 82);  
box-shadow:4px 4px 4px 4px rgb(93, 170,  
82) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4119, 31.6858, 13.0228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 170, 82) }
```

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

```
.background{ background-color: rgb(93, 170,  
82) }
```

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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