

Converting Colors

XYZ(13.7151, 20.3007, 12.1591)

Have a look what the booklet for
XYZ(13.7151, 20.3007, 12.1591)
contains.

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Color

**XYZ(13.7893, 20.4016,
12.2280)**

Conversions

Conversions Part 1

Format	Color
Hex	4C8A57
RGB	76, 138, 87
RGB Percent	30%, 54%, 34%
CMY	0.7020, 0.4588, 0.6588
CMYK	0.45, 0.00, 0.37, 0.46
HSL	131°, 29%, 42%
HSV	131°, 45%, 54%
XYZ	13.7893, 20.4016, 12.2280
YIQ	113.6480, -20.5810, -29.0050

Conversions

Conversions Part 2

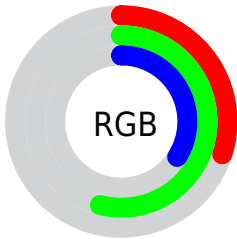
Format	Color
RYB	76, 129, 138
Decimal	5016151
CIELab	52.29, -31.62, 21.25
CIElCh	52, 38.094, 146.102
Yxy	20.4016, 0.2971, 0.4395
Android (android.graphics.Color)	4283206231 (0xFF4C8A57)
YUV	113.6480, -13.1375, -33.0173
Hunter-Lab	45.1681, -24.5503, 15.5666

Details

The XYZ color **13.7893, 20.4016, 12.2280** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **16.8971, 12.1049, 21.5253**, and the grayscale version is **15.9318, 16.7614, 18.2532**.

A 20% lighter version of the original color is **32.2671, 44.0946, 30.4774**, and **4.1618, 7.1586, 3.2602** is the 20% darker color. If you saturate the color by 10%, you get **12.3805, 19.7253, 9.9287**, and if you desaturate by 10%, it is **15.5074, 21.2300, 14.9234**.

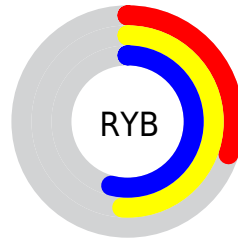
Distribution



Red (30%)

Green (54%)

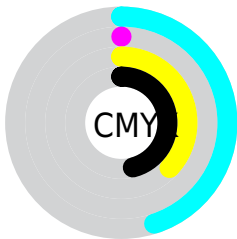
Blue (34%)



Red (30%)

Yellow (51%)

Blue (54%)

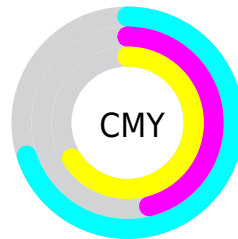


Cyan (45%)

Magenta (0%)

Yellow (37%)

Black (46%)



Cyan (70%)

Magenta (46%)

Yellow (66%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7893, 20.4016, 12.2280 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 13.7893, 20.4016, 12.2280 by changing the saturation by 10% instead.

■ 13.7893, 20.4016,
12.2280

■ 13.7893, 20.4016,
12.2280

209.4530,
254.0810, 216.9401

■ 8.0550, 12.6873,
6.7747

■ 32.3041, 44.0895,
30.5803

■ 4.1823, 7.2136,
3.2453

■ 45.8153, 60.8318,
44.3164

■ 1.8058, 3.5960,
1.2212

■ 62.6495, 81.3524,
61.6505

■ 0.5211, 1.4503,
0.0000

■ 83.1721, 106.0354,
83.0011

■ 0.0000, 0.2533,
0.0000

■ 107.7483,
135.2654, 108.7869

■ 0.0000, 0.0000,
0.0000

136.7437,

169.4268, 139.4263

170.5235,
208.9038, 175.3378

■ 13.7893, 20.4016,
12.2280

■ 13.7893, 20.4016,
12.2280

■ 12.3805, 19.7253,
9.9287

■ 15.5074, 21.2300,
14.9234

■ 11.2607, 19.1895,
8.0055

■ 17.5501, 22.2164,
18.0311

■ 10.4099, 18.7847,
6.4388


■ 19.9338, 23.3694,
21.5676

■ 9.8046, 18.4993,
5.2066


■ 22.6732, 24.6964,
25.5486

■ 9.4140, 18.3179,
4.2842


■ 25.7821, 26.2040,
29.9887

 9.2588, 18.2457,
3.9246

 29.2737, 27.8989,
34.9019

 33.1604, 29.7870,
40.3017

 37.4541, 31.8744,
46.2009

 42.1662, 34.1666,
52.6119

Harmonies

Analogous

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



16.2637, 20.4016, 7.9322



13.7893, 20.4016, 12.2280



12.8079, 20.4016, 20.7801

Triad

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



13.7893, 20.4016, 12.2280



18.8838, 20.4016, 51.4167



26.9682, 20.4016, 14.0137

Complementary

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



13.7893, 20.4016, 12.2280



16.8971, 12.1049, 21.5253

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.



27.9140, 20.4016, 23.7121



13.7893, 20.4016, 12.2280



22.8957, 20.4016, 47.7471

Square

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



13.7893, 20.4016, 12.2280



15.4880, 20.4016, 45.3472



26.3355, 20.4016, 36.5396



23.9004, 20.4016, 8.6931

Rectangle

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



13.7893, 20.4016, 12.2280



13.0199, 20.4016, 28.7466



26.3355, 20.4016, 36.5396



27.5611, 20.4016, 16.7544

Sweetspot

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



13.7898, 20.4024, 12.2285



35.8882, 41.5555, 39.1182



19.2458, 23.2632, 10.3135



7.8499, 9.2240, 8.4815



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



13.7898, 20.4024, 12.2285



21.7716, 34.7438, 17.4163



15.3001, 21.0066, 20.1815



5.0057, 5.6218, 5.5513



8.4929, 16.7297, 3.6201



0.0603, 0.1127, 0.0446

Inverse Universe

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



16.8971, 12.1049, 21.5253



27.9688, 18.1627, 35.9342



15.2084, 11.4294, 12.6329



5.1964, 5.1140, 6.1228



12.3741, 6.0598, 15.0062



0.0868, 0.0421, 0.1240

Previews

White Background



This preview shows how the XYZ color 13.7893, 20.4016, 12.2280 looks on a white background.

Color Contrast Check

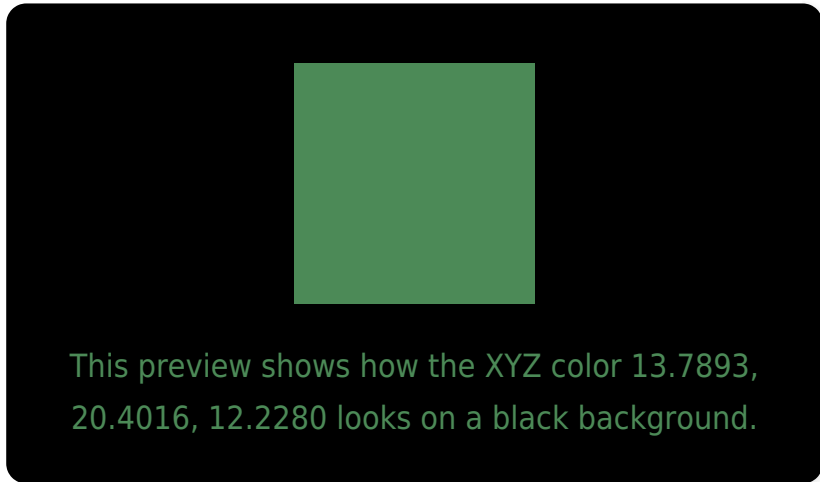
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.7893, 20.4016, 12.2280

Background



This preview shows how black text looks on a background with the XYZ color 13.7893, 20.4016, 12.2280.



This preview shows how white text looks on a background with the XYZ color 13.7893, 20.4016,

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

13.7893, 20.4016, 12.2280

Protanopia

18.6845, 20.1603, 10.6911

Deuteranopia

20.5178, 20.1520, 12.7059



Tritanopia

17.0233, 20.2603, 28.6046

Trichromacy



Original Color

13.7893, 20.4016, 12.2280

Protanomaly

16.3510, 19.9025, 11.1634

Deuteranomaly

17.1915, 19.7248, 12.5740

Tritanomaly

15.6941, 20.3402, 21.5112

Monochromacy



Original Color

13.7893, 20.4016, 12.2280

Achromatopsia

15.9940, 16.8269, 18.3245

Achromatomaly

14.8372, 17.8747, 15.7649

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7893, 20.4016, 12.2280 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(76, 138, 87)` looks like.

```
.text, #text, p{  
    color:rgb(76, 138, 87)  
}
```

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(76, 138, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 138, 87) }
```

Border

The CSS property to change the border of an element to XYZ 13.7893, 20.4016, 12.2280 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(76, 138, 87) }
```


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

```
.border{ border-color:rgb(76, 138, 87) }
```

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

Here you see how a box with a 4 pixel rgb(76, 138, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 138, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 138, 87);  
box-shadow:4px 4px 4px 4px rgb(76, 138,  
87) }
```

Background

The CSS property to change the background color of an element to XYZ 13.7893, 20.4016, 12.2280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 138, 87) }
```

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

```
.background{ background-color: rgb(76, 138,  
87) }
```

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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