

Converting Colors

XYZ(12.0986, 19.9455, 12.8851)

Have a look what the booklet for
XYZ(12.0986, 19.9455, 12.8851)
contains.

XYZ(12.0986, 19.9455, 12.8851)	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(12.0986, 19.9455,
12.8851)**

Conversions

Conversions Part 1

Format	Color
Hex	288C5A
RGB	40, 140, 90
RGB Percent	16%, 55%, 35%
CMY	0.8431, 0.4510, 0.6471
CMYK	0.71, 0.00, 0.36, 0.45
HSL	150°, 56%, 35%
HSV	150°, 71%, 55%
XYZ	12.0986, 19.9455, 12.8851
YIQ	104.4000, -43.5500, -36.7500

Conversions

Conversions Part 2

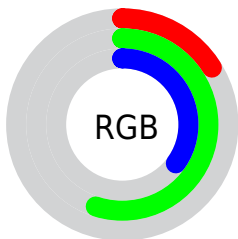
Format	Color
R_{YB}	40, 107, 140
Decimal	2657370
CIE _{Lab}	51.78, -40.62, 18.66
CIE _{LCh}	52, 44.701, 155.322
Yxy	19.9455, 0.2693, 0.4439
Android (android.graphics.Color)	4280847450 (0xFF288C5A)
YUV	104.4000, -7.0992, -56.4788
Hunter-Lab	44.6604, -29.7996, 14.1563

Details

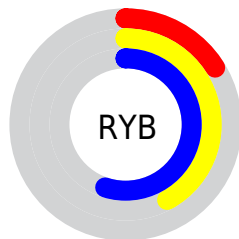
The XYZ color **12.0986, 19.9455, 12.8851** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **13.4200, 7.8315, 10.4776**, and the grayscale version is **13.2927, 13.9849, 15.2296**.

A 20% lighter version of the original color is **29.1710, 43.1297, 31.5983**, and **4.0270, 7.3266, 3.5848** is the 20% darker color. If you saturate the color by 10%, you get **11.3659, 19.6011, 11.3683**, and if you desaturate by 10%, it is **13.0576, 20.4044, 14.5599**.

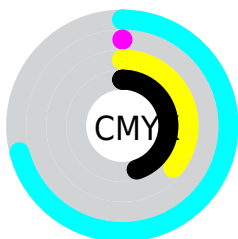
Distribution



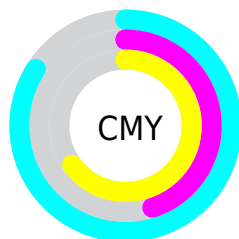
- Red (16%)
- Green (55%)
- Blue (35%)



- Red (16%)
- Yellow (42%)
- Blue (55%)



- Cyan (71%)
- Magenta (0%)
- Yellow (36%)
- Black (45%)



- Cyan (84%)
- Magenta (45%)
- Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0986, 19.9455, 12.8851 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 12.0986, 19.9455, 12.8851 by changing the saturation by 10% instead.

■ 12.0986, 19.9455,
12.8851

■ 12.0986, 19.9455,
12.8851

198.8136,
251.6199, 221.3619

■ 6.8835, 12.3554,
7.2197

■ 29.2899, 43.3258,
31.7854

■ 3.4351, 6.9862,
3.5193

■ 41.9968, 59.8848,
45.8573

■ 1.3878, 3.4535,
1.3655

■ 57.9317, 80.2023,
63.5684

■ 0.2475, 1.3728,
0.1146

■ 77.4599, 104.6625,
85.3374

■ 0.0000, 0.1966,
0.0000

■ 100.9469,
133.6501, 111.5827

■ 0.0000, 0.0000,
0.0000

■ 128.7579,

167.5492, 142.7228

161.2584,
206.7444, 179.1764

■ 12.0986, 19.9455,
12.8851

■ 12.0986, 19.9455,
12.8851

■ 11.3659, 19.6011,
11.3683

■ 13.0576, 20.4044,
14.5599

■ 10.8347, 19.3569,
10.0029

■ 14.2613, 20.9855,
16.3962

■ 10.4840, 19.1992,
8.9478

■ 15.7277, 21.6986,
18.3989

■ 17.4727, 22.5519,
20.5723

■ 19.5110, 23.5528,
22.9207

■ 21.8561, 24.7082,
25.4480

■ 24.5206, 26.0246,
28.1580

■ 27.5165, 27.5081,
31.0546

■ 30.8551, 29.1643,
34.1414

Harmonies

Analogous

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



14.3582, 19.9455, 7.0690



12.0986, 19.9455, 12.8851



11.5459, 19.9455, 24.1120

Triad

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



12.0986, 19.9455, 12.8851



19.7763, 19.9455, 57.1841



26.9812, 19.9455, 10.2597

Complementary

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



12.0986, 19.9455, 12.8851



13.4200, 7.8315, 10.4776

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.



29.0095, 19.9455, 19.4866



12.0986, 19.9455, 12.8851



24.4473, 19.9455, 49.0590

Square

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



12.0986, 19.9455, 12.8851



15.5514, 19.9455, 53.1476



28.0155, 19.9455, 33.8732



22.8280, 19.9455, 6.0305

Rectangle

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



12.0986, 19.9455, 12.8851



12.1293, 19.9455, 34.2160



28.0155, 19.9455, 33.8732



27.9619, 19.9455, 12.7066

Sweetspot

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



12.0991, 19.9463, 12.8856



34.3920, 41.5204, 40.4025



14.1421, 21.1684, 5.3481



7.7135, 9.4634, 9.0726



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.0991, 19.9463, 12.8856



19.4017, 34.2625, 18.4749



14.8654, 21.0528, 27.4526



5.0693, 5.6472, 5.8860



9.3251, 17.0626, 8.0026



0.0693, 0.1163, 0.0920

Inverse Universe

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



13.4200, 7.8315, 10.4776



21.8811, 11.5233, 13.9553



11.9865, 7.2581, 2.9286



5.1303, 5.0876, 5.7747



10.6021, 5.3509, 5.6748



0.0778, 0.0385, 0.0766

Previews

White Background



This preview shows how the XYZ color 12.0986, 19.9455, 12.8851 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



This preview shows how the XYZ color 12.0986, 19.9455, 12.8851 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 × Fail

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

XYZ 12.0986, 19.9455, 12.8851

Background



This preview shows how black text looks on a background with the XYZ color 12.0986, 19.9455, 12.8851.



This preview shows how white text looks on a background with the XYZ color 12.0986, 19.9455,

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

12.0986, 19.9455, 12.8851

Protanopia

18.3172, 19.7770, 11.0355

Deuteranopia

20.0456, 19.7124, 13.5748



Tritanopia

15.4082, 19.8128, 29.3977

Trichromacy



Original Color

12.0986, 19.9455, 12.8851

Protanomaly

14.6756, 19.0250, 11.7028

Deuteranomaly

15.3805, 18.7762, 13.1695

Tritanomaly

13.9636, 19.8478, 22.1638

Monochromacy



Original Color

12.0986, 19.9455, 12.8851

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.0068, 15.3728, 14.1388

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0986, 19.9455, 12.8851 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(40, 140, 90)` looks like.

```
.text, #text, p{  
    color:rgb(40, 140, 90)  
}
```

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(40, 140, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 140, 90) }
```

Border

The CSS property to change the border of an element to XYZ 12.0986, 19.9455, 12.8851 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(40, 140, 90) }
```


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

```
.border{ border-color:rgb(40, 140, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 140, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 140, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 140, 90);  
box-shadow:4px 4px 4px 4px rgb(40, 140,  
90) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0986, 19.9455, 12.8851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 140, 90) }
```

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

```
.background{ background-color: rgb(40, 140,  
90) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor