

Converting Colors

XYZ(10.1421, 21.1071, 11.7183)

Have a look what the booklet for
XYZ(10.1421, 21.1071, 11.7183)
contains.

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Color

**XYZ(12.3088, 22.1194,
11.8044)**

Conversions

Conversions Part 1

Format	Color
Hex	009553
RGB	0, 149, 83
RGB Percent	0%, 58%, 33%
CMY	1.0000, 0.4157, 0.6745
CMYK	1.00, 0.00, 0.44, 0.42
HSL	153°, 100%, 29%
HSV	153°, 100%, 58%
XYZ	12.3088, 22.1194, 11.8044
YIQ	96.9250, -67.6180, -52.1140

Conversions

Conversions Part 2

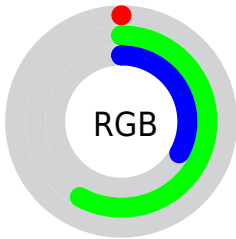
Format	Color
RYB	0, 96, 149
Decimal	38227
CIELab	54.15, -49.42, 25.59
CIELCh	54, 55.651, 152.625
Yxy	22.1194, 0.2662, 0.4784
Android (android.graphics.Color)	4278228307 (0xFF009553)
YUV	96.9250, -6.8650, -85.0032
Hunter-Lab	47.0313, -35.5885, 18.0407

Details

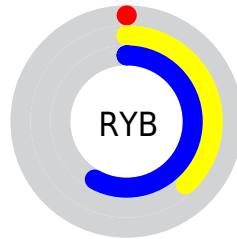
The XYZ color **12.3088, 22.1194, 11.8044** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.3786, 6.7835, 5.7599**, and the grayscale version is **11.3730, 11.9653, 13.0302**.

A 20% lighter version of the original color is **29.5728, 46.8105, 29.6670**, and **4.5931, 8.6768, 3.1018** is the 20% darker color. If you saturate the color by 10%, you get **12.3091, 22.1202, 11.8041**, and if you desaturate by 10%, it is **12.7719, 22.3279, 13.2210**.

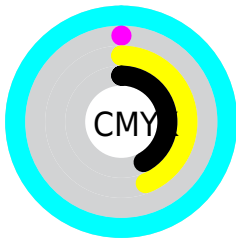
Distribution



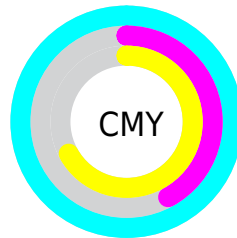
- Red (0%)
- Green (58%)
- Blue (33%)



- Red (0%)
- Yellow (38%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (44%)
- Black (42%)





- Cyan (100%)
- Magenta (42%)
- Yellow (67%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3088, 22.1194, 11.8044 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 12.3088, 22.1194, 11.8044 by changing the saturation by 10% instead.


 12.3088, 22.1194,
11.8044

 12.3088, 22.1194,
11.8044


200.1675,
263.1692, 214.0378


 7.0280, 13.9447,
6.4897


 29.6683, 46.9433,
29.7974


 3.5261, 8.0822,
3.0715


 42.4777, 64.3612,
43.3128


 1.4377, 4.1476,
1.1313

 58.5274, 85.6289,
60.3989

 0.2829, 1.7565,
0.0000

 78.1828, 111.1309,
81.4741

 0.0000, 0.4598,
0.0000

 101.8091,
141.2515, 106.9571

 0.0000, 0.0000,
0.0000

 129.7717,

176.3752, 137.2663

162.4361,
216.8863, 172.8204

■ 12.3088, 22.1194,
11.8044

■ 12.3088, 22.1194,
11.8044

■ 12.3091, 22.1202,
11.8041

■ 12.7719, 22.3279,
13.2210

■ 13.3984, 22.6171,
14.7748

■ 14.2556, 23.0223,
16.4727

■ 15.3700, 23.5571,
18.3191

■ 16.7640, 24.2329,
20.3182

■ 18.4576, 25.0601,
22.4737

■ 20.4690, 26.0478,
24.7894

■ 22.8147, 27.2046,
27.2688

■ 25.5102, 28.5384,
29.9153

Harmonies

Analogous

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



15.3660, 22.1194, 5.5341



12.3088, 22.1194, 11.8044



11.4295, 22.1194, 25.6394

Triad

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



12.3088, 22.1194, 11.8044



21.5600, 22.1194, 74.8948



32.3936, 22.1194, 10.2395

Complementary

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



12.3088, 22.1194, 11.8044



13.3786, 6.7835, 5.7599

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.



34.8818, 22.1194, 22.5933



12.3088, 22.1194, 11.8044



27.9236, 22.1194, 64.3333

Square

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



12.3088, 22.1194, 11.8044



16.1255, 22.1194, 67.3097



33.1081, 22.1194, 42.8317



26.8255, 22.1194, 4.9822

Rectangle

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



12.3088, 22.1194, 11.8044



12.0265, 22.1194, 39.2706



33.1081, 22.1194, 42.8317



33.6614, 22.1194, 13.4254

Sweetspot

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



12.3094, 22.1203, 11.8049



36.4176, 46.5293, 44.1296



13.0665, 22.6910, 3.6914



7.7551, 10.1564, 9.4244



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.3094, 22.1203, 11.8049



21.9515, 39.5763, 20.6558



15.0317, 21.3832, 31.7699



5.8567, 6.5193, 6.8562



10.3746, 18.6226, 10.0139



0.1418, 0.2339, 0.2008

Inverse Universe

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



13.3786, 6.7835, 5.7599



23.8705, 12.1123, 9.8520



12.4759, 6.5517, 0.6073



5.9011, 5.8555, 6.5856



11.2739, 5.7146, 4.9234



0.1524, 0.0757, 0.1363

Previews

White Background



This preview shows how the XYZ color 12.3088, 22.1194, 11.8044 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 12.3088, 22.1194, 11.8044 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 12.3088, 22.1194, 11.8044

Background



This preview shows how black text looks on a background with the XYZ color 12.3088, 22.1194, 11.8044.



This preview shows how white text looks on a background with the XYZ color 12.3088, 22.1194,

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

12.3088, 22.1194, 11.8044

Protanopia

20.1048, 21.8712, 9.8185

Deuteranopia

22.2126, 21.7572, 12.4800



Tritanopia

16.7679, 22.1290, 33.0933

Trichromacy



Original Color

12.3088, 22.1194, 11.8044



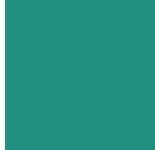
Protanomaly

14.3958, 20.3320, 10.3735



Deuteranomaly

15.0086, 19.7873, 12.0451



Tritanomaly

14.4972, 21.8361, 23.5294

Monochromacy



Original Color

12.3088, 22.1194, 11.8044



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

10.1638, 14.2876, 12.3473

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3088, 22.1194, 11.8044 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(0, 149, 83)` looks like.

```
.text, #text, p{  
    color:rgb(0, 149, 83)  
}
```

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(0, 149, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 149, 83) }
```

Border

The CSS property to change the border of an element to XYZ 12.3088, 22.1194, 11.8044 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(0, 149, 83) }
```


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

```
.border{ border-color:rgb(0, 149, 83) }
```

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

Here you see how a box with a 4 pixel rgb(0, 149, 83) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 149, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 149, 83);  
box-shadow:4px 4px 4px 4px rgb(0, 149, 83)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.3088, 22.1194, 11.8044 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 149, 83) }
```

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

```
.background{ background-color: rgb(0, 149,  
83) }
```

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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