

Converting Colors

XYZ(12.1741, 20.5376, 15.8057)

Have a look what the booklet for
XYZ(12.1741, 20.5376, 15.8057)
contains.

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Color

**XYZ(12.2207, 20.6042,
15.9033)**

Conversions

Conversions Part 1

Format	Color
Hex	008F66
RGB	0, 143, 102
RGB Percent	0%, 56%, 40%
CMY	1.0000, 0.4392, 0.6000
CMYK	1.00, 0.00, 0.29, 0.44
HSL	163°, 100%, 28%
HSV	163°, 100%, 56%
XYZ	12.2207, 20.6042, 15.9033
YIQ	95.5690, -72.0670, -43.0670

Conversions

Conversions Part 2

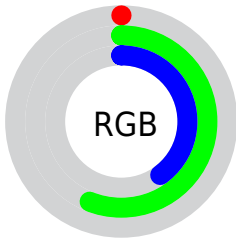
Format	Color
RYB	0, 83, 143
Decimal	36710
CIELab	52.51, -42.96, 12.80
CIELCh	53, 44.822, 163.407
Yxy	20.6042, 0.2508, 0.4228
Android (android.graphics.Color)	4278226790 (0xFF008F66)
YUV	95.5690, 3.1705, -83.8140
Hunter-Lab	45.3918, -31.3788, 11.0017

Details

The XYZ color **12.2207, 20.6042, 15.9033** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **11.7286, 6.0002, 2.6386**, and the grayscale version is **11.0198, 11.5937, 12.6256**.

A 20% lighter version of the original color is **29.6000, 44.5729, 37.1803**, and **4.4307, 7.7580, 4.8784** is the 20% darker color. If you saturate the color by 10%, you get **12.2210, 20.6049, 15.9032**, and if you desaturate by 10%, it is **12.6155, 20.7842, 17.0103**.

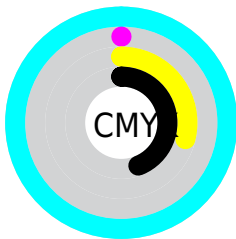
Distribution



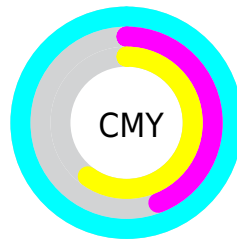
- Red (0%)
- Green (56%)
- Blue (40%)



- Red (0%)
- Yellow (33%)
- Blue (56%)



- Cyan (100%)
- Magenta (0%)
- Yellow (29%)
- Black (44%)



- Cyan (100%)
- Magenta (44%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2207, 20.6042, 15.9033 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 12.2207, 20.6042, 15.9033 by changing the saturation by 10% instead.

■ 12.2207, 20.6042,
15.9033

■ 12.2207, 20.6042,
15.9033

199.6012,
255.1675, 240.5966

■ 6.9674, 12.8350,
9.3021

■ 29.5098, 44.4279,
37.1947

■ 3.4879, 7.3150,
4.8393

■ 42.2764, 61.2511,
52.7220

■ 1.4167, 3.6599,
2.0962

■ 58.2781, 81.8612,
72.0618

■ 0.2681, 1.4852,
0.6135

■ 77.8803, 106.6425,
95.6326

■ 0.0000, 0.2783,
0.0000

■ 101.4483,
135.9793, 123.8529

■ 0.0000, 0.0000,
0.0000

■ 129.3476,

170.2562, 157.1414

161.9434,
209.8575, 195.9164

■ 12.2207, 20.6042,
15.9033

■ 12.2207, 20.6042,
15.9033

■ 12.2210, 20.6049,
15.9032

■ 12.6155, 20.7842,
17.0103

■ 13.1440, 21.0314,
18.1763

■ 13.8697, 21.3790,
19.4055

■ 14.8161, 21.8392,
20.6998

■ 16.0029, 22.4222,
22.0607

■ 17.4480, 23.1370,
23.4897

■ 19.1671, 23.9919,
24.9882

■ 21.1750, 24.9943,
26.5577

■ 23.4853, 26.1513,
28.1993

Harmonies

Analogous

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



14.0730, 20.6042, 8.5259



12.2207, 20.6042, 15.9033



12.1272, 20.6042, 28.8921

Triad

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



12.2207, 20.6042, 15.9033



21.7249, 20.6042, 57.5736



26.8024, 20.6042, 9.0636

Complementary

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



12.2207, 20.6042, 15.9033



11.7286, 6.0002, 2.6386

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.



29.6014, 20.6042, 17.0188



12.2207, 20.6042, 15.9033



26.3726, 20.6042, 46.5718

Square

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



12.2207, 20.6042, 15.9033



17.1460, 20.6042, 56.8875



29.4327, 20.6042, 30.5461



22.2421, 20.6042, 5.7812

Rectangle

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



12.2207, 20.6042, 15.9033



13.0432, 20.6042, 39.6372



29.4327, 20.6042, 30.5461



28.0104, 20.6042, 11.1067

Sweetspot

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



12.2213, 20.6050, 15.9038



34.1120, 42.8585, 44.5731



10.8152, 20.1572, 3.3209



7.5449, 9.6902, 9.9862



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.2213, 20.6050, 15.9038



21.8086, 36.8683, 28.0758



11.0211, 14.1091, 28.1300



5.4952, 6.0903, 6.5737



10.8146, 18.2217, 14.1099



0.1129, 0.1780, 0.1851

Inverse Universe

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



11.7286, 6.0002, 2.6386



20.9374, 10.7184, 4.3789



11.7579, 6.6994, 0.6736



5.4685, 5.4479, 5.9652



10.3779, 5.3082, 2.3756



0.1078, 0.0542, 0.0678

Previews

White Background



This preview shows how the XYZ color 12.2207, 20.6042, 15.9033 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 12.2207, 20.6042, 15.9033 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 12.2207, 20.6042, 15.9033

Background



This preview shows how black text looks on a background with the XYZ color 12.2207, 20.6042, 15.9033.



This preview shows how white text looks on a background with the XYZ color 12.2207, 20.6042,

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

12.2207, 20.6042, 15.9033

Protanopia

19.1855, 20.5437, 13.5438

Deuteranopia

20.6980, 20.3341, 16.7439



Tritanopia

15.5099, 20.6578, 31.1869

Trichromacy



Original Color

12.2207, 20.6042, 15.9033



Protanomaly

14.1552, 19.2969, 14.2879



Deuteranomaly

14.5834, 18.6824, 16.2020



Tritanomaly

13.8944, 20.3952, 24.6771

Monochromacy



Original Color

12.2207, 20.6042, 15.9033



Achromatopsia

11.1181, 11.6971, 12.7381



Achromatomaly

10.0342, 13.6842, 13.6677

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2207, 20.6042, 15.9033 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, 143, 102)` looks like.

```
.text, #text, p{  
    color:rgb(0, 143, 102)  
}
```

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, 143, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 143, 102) }
```

Border

The CSS property to change the border of an element to XYZ 12.2207, 20.6042, 15.9033 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, 143, 102) }
```


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

```
.border{ border-color:rgb(0, 143, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 143, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 143, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 143, 102);  
box-shadow:4px 4px 4px 4px rgb(0, 143,  
102) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2207, 20.6042, 15.9033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 143, 102) }
```

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

```
.background{ background-color: rgb(0, 143,  
102) }
```

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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