

Converting Colors

XYZ(6.6827, 18.0575, 15.8943)

Have a look what the booklet for
XYZ(6.6827, 18.0575, 15.8943)
contains.

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Color

**XYZ(12.4214, 20.9258,
16.2164)**

Conversions

Conversions Part 1

Format	Color
Hex	009067
RGB	0, 144, 103
RGB Percent	0%, 56%, 40%
CMY	1.0000, 0.4353, 0.5961
CMYK	1.00, 0.00, 0.28, 0.44
HSL	163°, 100%, 28%
HSV	163°, 100%, 56%
XYZ	12.4214, 20.9258, 16.2164
YIQ	96.2700, -72.6630, -43.2790

Conversions

Conversions Part 2

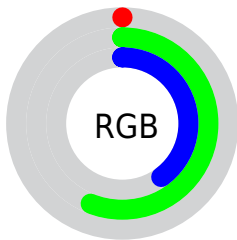
Format	Color
RYB	0, 84, 144
Decimal	36967
CIELab	52.87, -43.11, 12.72
CIELCh	53, 44.949, 163.555
Yxy	20.9258, 0.2506, 0.4222
Android (android.graphics.Color)	4278227047 (0xFF009067)
YUV	96.2700, 3.3179, -84.4288
Hunter-Lab	45.7447, -31.5839, 11.0031

Details

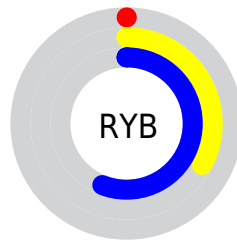
The XYZ color **12.4214, 20.9258, 16.2164** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **11.9024, 6.0898, 2.6465**, and the grayscale version is **11.1893, 11.7720, 12.8197**.

A 20% lighter version of the original color is **29.9123, 45.0648, 37.6937**, and **4.5410, 7.9398, 5.0346** is the 20% darker color. If you saturate the color by 10%, you get **12.4218, 20.9266, 16.2165**, and if you desaturate by 10%, it is **12.8203, 21.1076, 17.3365**.

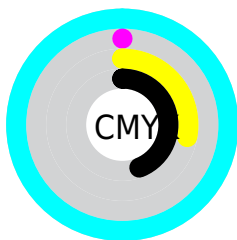
Distribution



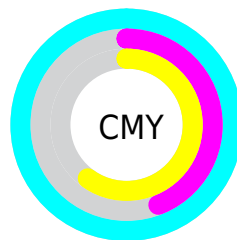
- Red (0%)
- Green (56%)
- Blue (40%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (28%)
- Black (44%)





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

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4214, 20.9258, 16.2164 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 12.4214, 20.9258, 16.2164 by changing the saturation by 10% instead.


 12.4214, 20.9258,
16.2164


 12.4214, 20.9258,
16.2164


200.8889,
256.8839, 242.5044


 7.1056, 13.0698,
9.5214


 29.8706, 44.9640,
37.7455


 3.5751, 7.4766,
4.9814


 42.7346, 61.9150,
53.4167


 1.4647, 3.7619,
2.1778


 58.8454, 82.6664,
72.9170

 0.3016, 1.5413,
0.6615

 78.5684, 107.6027,
96.6649

 0.0000, 0.3175,
0.0000

 102.2689,
137.1081, 125.0791

 0.0000, 0.0000,
0.0000

 130.3122,

171.5672, 158.5781

163.0638,
211.3644, 197.5803

■ 12.4214, 20.9258,
16.2164

■ 12.4214, 20.9258,
16.2164

■ 12.4218, 20.9266,
16.2165

■ 12.8203, 21.1076,
17.3365

■ 13.3552, 21.3578,
18.5159

■ 14.0905, 21.7101,
19.7588

■ 15.0497, 22.1767,
21.0671

■ 16.2533, 22.7679,
22.4423

■ 17.7191, 23.4932,
23.8861

■ 19.4634, 24.3607,
25.3997

■ 21.5011, 25.3782,
26.9846

■ 23.8460, 26.5527,
28.6421

Harmonies

Analogous

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



14.2907, 20.9258, 8.7063



12.4214, 20.9258, 16.2164



12.3354, 20.9258, 29.4035

Triad

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



12.4214, 20.9258, 16.2164



22.0831, 20.9258, 58.3327



27.1820, 20.9258, 9.2013

Complementary

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



12.4214, 20.9258, 16.2164



11.9024, 6.0898, 2.6465

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.



30.0292, 20.9258, 17.2420



12.4214, 20.9258, 16.2164



26.7872, 20.9258, 47.1522

Square

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



12.4214, 20.9258, 16.2164



17.4397, 20.9258, 57.7029



29.8742, 20.9258, 30.9229



22.5583, 20.9258, 5.8873

Rectangle

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



12.4214, 20.9258, 16.2164



13.2701, 20.9258, 40.2888



29.8742, 20.9258, 30.9229



28.4089, 20.9258, 11.2660

Sweetspot

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



12.4220, 20.9266, 16.2169



34.1226, 42.8627, 44.6287



10.9785, 20.4653, 3.3717



7.5476, 9.6912, 10.0004



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.



12.4220, 20.9266, 16.2169



21.8343, 36.8786, 28.2110



11.1882, 14.3216, 28.5612



5.4957, 6.0905, 6.5761



10.8271, 18.2267, 14.1758



0.1130, 0.1781, 0.1855

Inverse Universe

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



11.9024, 6.0898, 2.6465



20.9288, 10.7150, 4.3337



11.9367, 6.7987, 0.6833



5.4681, 5.4478, 5.9630



10.3735, 5.3064, 2.3522



0.1077, 0.0541, 0.0673

Previews

White Background



This preview shows how the XYZ color 12.4214, 20.9258, 16.2164 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 12.4214, 20.9258, 16.2164 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 12.4214, 20.9258, 16.2164

Background



This preview shows how black text looks on a background with the XYZ color 12.4214, 20.9258, 16.2164.



This preview shows how white text looks on a background with the XYZ color 12.4214, 20.9258,

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

12.4214, 20.9258, 16.2164

Protanopia

19.1855, 20.5437, 13.5438

Deuteranopia

21.0457, 20.6867, 17.0711



Tritanopia

15.7322, 20.9753, 31.6532

Trichromacy



Original Color

12.4214, 20.9258, 16.2164

Protanomaly

14.1552, 19.2969, 14.2879

Deuteranomaly

14.8654, 19.0164, 16.5227

Tritanomaly

14.1080, 20.7134, 25.0843

Monochromacy



Original Color

12.4214, 20.9258, 16.2164

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

10.0817, 13.7032, 13.9180

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4214, 20.9258, 16.2164 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, 144, 103)` looks like.

```
.text, #text, p{  
    color:rgb(0, 144, 103)  
}
```

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, 144, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 144, 103) }
```

Border

The CSS property to change the border of an element to XYZ 12.4214, 20.9258, 16.2164 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, 144, 103) }
```


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

```
.border{ border-color:rgb(0, 144, 103) }
```

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

Here you see how a box with a 4 pixel rgb(0, 144, 103) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 144, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 144, 103);  
box-shadow:4px 4px 4px 4px rgb(0, 144,  
103) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4214, 20.9258, 16.2164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 144, 103) }
```

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

```
.background{ background-color: rgb(0, 144,  
103) }
```

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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