

Converting Colors

XYZ(12.2792, 20.8315, 15.5825)

Have a look what the booklet for
XYZ(12.2792, 20.8315, 15.5825)
contains.

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Color

**XYZ(12.3222, 20.8861,
15.6939)**

Conversions

Conversions Part 1

Format	Color
Hex	009065
RGB	0, 144, 101
RGB Percent	0%, 56%, 40%
CMY	1.0000, 0.4353, 0.6039
CMYK	1.00, 0.00, 0.30, 0.44
HSL	162°, 100%, 28%
HSV	162°, 100%, 56%
XYZ	12.3222, 20.8861, 15.6939
YIQ	96.0420, -72.0210, -43.9010

Conversions

Conversions Part 2

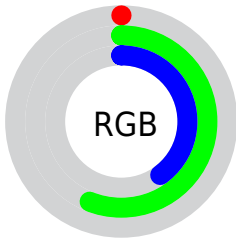
Format	Color
RYB	0, 85, 144
Decimal	36965
CIELab	52.82, -43.60, 13.80
CIELCh	53, 45.732, 162.436
Yxy	20.8861, 0.2520, 0.4271
Android (android.graphics.Color)	4278227045 (0xFF009065)
YUV	96.0420, 2.4443, -84.2288
Hunter-Lab	45.7013, -31.8493, 11.6306

Details

The XYZ color **12.3222, 20.8861, 15.6939** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **11.9383, 6.1042, 2.8353**, and the grayscale version is **11.1360, 11.7159, 12.7586**.

A 20% lighter version of the original color is **29.7471, 44.9987, 36.8235**, and **4.4930, 7.9206, 4.7821** is the 20% darker color. If you saturate the color by 10%, you get **12.3226, 20.8868, 15.6938**, and if you desaturate by 10%, it is **12.7265, 21.0701, 16.8422**.

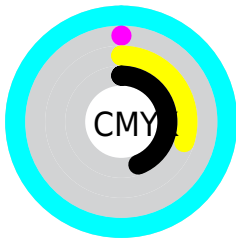
Distribution



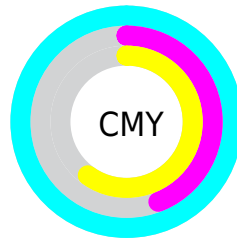
- Red (0%)
- Green (56%)
- Blue (40%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (30%)
- Black (44%)





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

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3222, 20.8861, 15.6939 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 12.3222, 20.8861, 15.6939 by changing the saturation by 10% instead.


 12.3222, 20.8861,
15.6939


 12.3222, 20.8861,
15.6939


200.2535,
256.6726, 239.3124


 7.0373, 13.0408,
9.1558


 29.6924, 44.8979,
36.8253


 3.5320, 7.4566,
4.7448


 42.5083, 61.8332,
52.2558


 1.4409, 3.7493,
2.0422

 58.5653, 82.5672,
71.4874

 0.2851, 1.5343,
0.5810

 78.2287, 107.4844,
94.9388

 0.0000, 0.3127,
0.0000

 101.8639,
136.9691, 123.0284

 0.0000, 0.0000,
0.0000

 129.8362,

171.4058, 156.1749

162.5109,
211.1788, 194.7967

■ 12.3222, 20.8861,
15.6939

■ 12.3222, 20.8861,
15.6939

■ 12.3226, 20.8868,
15.6938

■ 12.7265, 21.0701,
16.8422

■ 13.2678, 21.3228,
18.0549

■ 14.0104, 21.6780,
19.3363

■ 14.9780, 22.1479,
20.6883

■ 16.1909, 22.7430,
22.1127

■ 17.6671, 23.4724,
23.6110

■ 19.4229, 24.3445,
25.1849

■ 21.4731, 25.3670,
26.8357

■ 23.8317, 26.5470,
28.5648

Harmonies

Analogous

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



14.2788, 20.8861, 8.3324



12.3222, 20.8861, 15.6939



12.1681, 20.8861, 28.8865

Triad

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



12.3222, 20.8861, 15.6939



21.8950, 20.8861, 59.2931



27.4275, 20.8861, 9.2135

Complementary

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



12.3222, 20.8861, 15.6939



11.9383, 6.1042, 2.8353

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.



30.2344, 20.8861, 17.5362



12.3222, 20.8861, 15.6939



26.7132, 20.8861, 48.1893

Square

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



12.3222, 20.8861, 15.6939



17.2080, 20.8861, 58.1472



29.9538, 20.8861, 31.6345



22.7530, 20.8861, 5.7564

Rectangle

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



12.3222, 20.8861, 15.6939



13.0675, 20.8861, 39.9598



29.9538, 20.8861, 31.6345



28.6520, 20.8861, 11.3532

Sweetspot

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



12.3228, 20.8869, 15.6944



34.0492, 42.8334, 44.2425



10.9786, 20.4653, 3.3718



7.5290, 9.6838, 9.9024



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.



12.3228, 20.8869, 15.6944



21.6575, 36.8078, 27.2799



11.1883, 14.3217, 28.5612



5.4926, 6.0893, 6.5598



10.7410, 18.1922, 13.7219



0.1124, 0.1778, 0.1825

Inverse Universe

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



11.9383, 6.1042, 2.8353



20.9900, 10.7394, 4.6556



11.9367, 6.7988, 0.6834



5.4710, 5.4489, 5.9785



10.4050, 5.3190, 2.5180



0.1083, 0.0544, 0.0704

Previews

White Background



This preview shows how the XYZ color 12.3222, 20.8861, 15.6939 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 12.3222, 20.8861, 15.6939 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

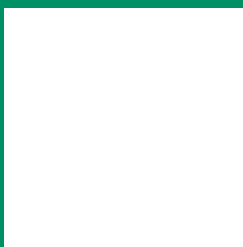
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3222, 20.8861, 15.6939

Background



This preview shows how black text looks on a background with the XYZ color 12.3222, 20.8861, 15.6939.



This preview shows how white text looks on a background with the XYZ color 12.3222, 20.8861,

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

12.3222, 20.8861, 15.6939

Protanopia

19.3011, 20.6084, 13.3165

Deuteranopia

20.9405, 20.6446, 16.5168



Tritanopia

15.7322, 20.9753, 31.6532

Trichromacy



Original Color

12.3222, 20.8861, 15.6939

Protanomaly

14.2003, 19.3255, 14.0481

Deuteranomaly

14.7626, 18.9753, 15.9812

Tritanomaly

14.1080, 20.7134, 25.0843

Monochromacy



Original Color

12.3222, 20.8861, 15.6939

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 12.3222, 20.8861, 15.6939 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, 101)` looks like.

```
.text, #text, p{  
    color:rgb(0, 144, 101)  
}
```

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, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 144, 101) }
```

Border

The CSS property to change the border of an element to XYZ 12.3222, 20.8861, 15.6939 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, 101) }
```


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

```
.border{ border-color:rgb(0, 144, 101) }
```

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, 101) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 144, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 144, 101);  
box-shadow:4px 4px 4px 4px rgb(0, 144,  
101) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3222, 20.8861, 15.6939 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, 101) }
```

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

```
.background{ background-color: rgb(0, 144,  
101) }
```

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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