

Converting Colors

XYZ(13.0384, 22.1591, 16.4193)

Have a look what the booklet for
XYZ(13.0384, 22.1591, 16.4193)
contains.

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Color

**XYZ(13.0381, 22.1591,
16.4219)**

Conversions

Conversions Part 1

Format	Color
Hex	009467
RGB	0, 148, 103
RGB Percent	0%, 58%, 40%
CMY	1.0000, 0.4196, 0.5961
CMYK	1.00, 0.00, 0.30, 0.42
HSL	162°, 100%, 29%
HSV	162°, 100%, 58%
XYZ	13.0381, 22.1591, 16.4219
YIQ	98.6180, -73.7630, -45.3710

Conversions

Conversions Part 2

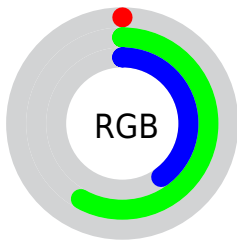
Format	Color
RYB	0, 87, 148
Decimal	37991
CIELab	54.20, -44.70, 14.57
CIELCh	54, 47.013, 161.950
Yxy	22.1591, 0.2526, 0.4293
Android (android.graphics.Color)	4278228071 (0xFF009467)
YUV	98.6180, 2.1603, -86.4880
Hunter-Lab	47.0735, -32.9388, 12.2677

Details

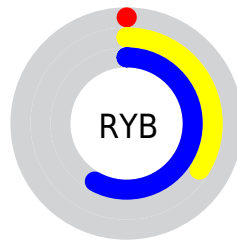
The XYZ color **13.0381, 22.1591, 16.4219** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **12.6872, 6.4859, 3.0671**, and the grayscale version is **11.7729, 12.3860, 13.4883**.

A 20% lighter version of the original color is **30.9350, 46.9763, 38.0087**, and **4.8967, 8.6513, 5.1532** is the 20% darker color. If you saturate the color by 10%, you get **13.0384, 22.1598, 16.4215**, and if you desaturate by 10%, it is **13.4646, 22.3527, 17.6536**.

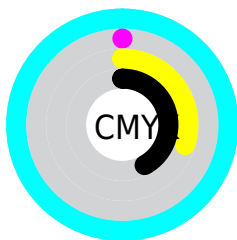
Distribution



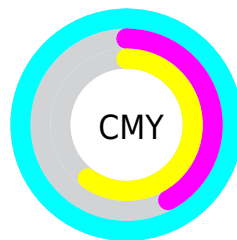
- Red (0%)
- Green (58%)
- Blue (40%)



- Red (0%)
- Yellow (34%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (30%)
- Black (42%)



- Cyan (100%)
- Magenta (42%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.0381, 22.1591, 16.4219 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 13.0381, 22.1591, 16.4219 by changing the saturation by 10% instead.

■ 13.0381, 22.1591,
16.4219

■ 13.0381, 22.1591,
16.4219

204.7944,
263.3760, 243.7487

■ 7.5320, 13.9739,
9.6656

■ 30.9729, 47.0088,
38.1060

■ 3.8462, 8.1025,
5.0751

■ 44.1324, 64.4421,
53.8710

■ 1.6155, 4.1606,
2.2319

■ 60.5736, 85.7268,
73.4759

■ 0.4025, 1.7638,
0.6927

■ 80.6620, 111.2473,
97.3393

■ 0.0000, 0.4645,
0.0000

■ 104.7629,
141.3882, 125.8797

■ 0.0000, 0.0000,
0.0000

■ 133.2417,

176.5336, 159.5157

166.4638,
217.0681, 198.6659

■ 13.0381, 22.1591,
16.4219

■ 13.0381, 22.1591,
16.4219

■ 13.0384, 22.1598,
16.4215

■ 13.4646, 22.3527,
17.6536

■ 14.0392, 22.6207,
18.9562

■ 14.8285, 22.9979,
20.3342

■ 15.8579, 23.4975,
21.7898

■ 17.1492, 24.1305,
23.3250

■ 18.7217, 24.9070,
24.9413

■ 20.5928, 25.8359,
26.6407

■ 22.7783, 26.9254,
28.4246

■ 25.2932, 28.1831,
30.2946

Harmonies

Analogous

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



15.1567, 22.1591, 8.6755



13.0381, 22.1591, 16.4219



12.8427, 22.1591, 30.4302

Triad

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



13.0381, 22.1591, 16.4219



23.1605, 22.1591, 63.4139



29.2396, 22.1591, 9.7899

Complementary

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



13.0381, 22.1591, 16.4219



12.6872, 6.4859, 3.0671

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.



32.2007, 22.1591, 18.7613



13.0381, 22.1591, 16.4219



28.3298, 22.1591, 51.6625

Square

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



13.0381, 22.1591, 16.4219



18.1636, 22.1591, 61.9504



31.8431, 22.1591, 33.9303



24.2524, 22.1591, 6.0521

Rectangle

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



13.0381, 22.1591, 16.4219



13.7811, 22.1591, 42.2747



31.8431, 22.1591, 33.9303



30.5386, 22.1591, 12.0974

Sweetspot

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



13.0387, 22.1600, 16.4224



36.1178, 45.4771, 46.8184



11.7569, 21.7820, 3.5850



7.9446, 10.2322, 10.4223



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.



13.0387, 22.1600, 16.4224



22.9256, 39.0668, 28.5570



12.1673, 15.7816, 30.4229



5.8898, 6.5325, 7.0304



11.1489, 18.9324, 14.0916



0.1496, 0.2370, 0.2417

Inverse Universe

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



12.6872, 6.4859, 3.0671



22.3165, 11.4159, 5.0510



12.6085, 7.0866, 0.7036



5.8691, 5.8427, 6.4167



10.8473, 5.5440, 2.6769



0.1447, 0.0726, 0.0955

Previews

White Background



This preview shows how the XYZ color 13.0381, 22.1591, 16.4219 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 13.0381, 22.1591, 16.4219 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 13.0381, 22.1591, 16.4219

Background



This preview shows how black text looks on a background with the XYZ color 13.0381, 22.1591, 16.4219.



This preview shows how white text looks on a background with the XYZ color 13.0381, 22.1591,

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

13.0381, 22.1591, 16.4219

Protanopia

20.3519, 21.9119, 13.7464

Deuteranopia

22.3089, 21.8876, 17.2363



Tritanopia

16.7382, 22.3240, 33.5638

Trichromacy



Original Color

13.0381, 22.1591, 16.4219

Protanomaly

14.9863, 20.5461, 14.4852

Deuteranomaly

15.7084, 20.2486, 16.7161

Tritanomaly

14.9421, 22.0029, 26.3811

Monochromacy



Original Color

13.0381, 22.1591, 16.4219

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

10.7114, 14.6994, 14.3293

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.0381, 22.1591, 16.4219 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, 148, 103)` looks like.

```
.text, #text, p{  
    color:rgb(0, 148, 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, 148, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 148, 103) }
```

Border

The CSS property to change the border of an element to XYZ 13.0381, 22.1591, 16.4219 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, 148, 103) }
```


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

```
.border{ border-color:rgb(0, 148, 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, 148, 103) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 148, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 148, 103);  
box-shadow:4px 4px 4px 4px rgb(0, 148,  
103) }
```

Background

The CSS property to change the background color of an element to XYZ 13.0381, 22.1591, 16.4219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 148, 103) }
```

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

```
.background{ background-color: rgb(0, 148,  
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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