

Converting Colors

XYZ(12.6750, 21.8930, 14.8824)

Have a look what the booklet for
XYZ(12.6750, 21.8930, 14.8824)
contains.

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Color

**XYZ(12.7476, 22.0429,
14.8921)**

Conversions

Conversions Part 1

Format	Color
Hex	009461
RGB	0, 148, 97
RGB Percent	0%, 58%, 38%
CMY	1.0000, 0.4196, 0.6196
CMYK	1.00, 0.00, 0.34, 0.42
HSL	159°, 100%, 29%
HSV	159°, 100%, 58%
XYZ	12.7476, 22.0429, 14.8921
YIQ	97.9340, -71.8370, -47.2370

Conversions

Conversions Part 2

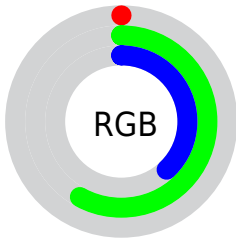
Format	Color
RYB	0, 89, 148
Decimal	37985
CIELab	54.07, -46.10, 17.77
CIELCh	54, 49.406, 158.921
Yxy	22.0429, 0.2566, 0.4437
Android (android.graphics.Color)	4278228065 (0xFF009461)
YUV	97.9340, -0.4605, -85.8881
Hunter-Lab	46.9499, -33.6968, 14.0586

Details

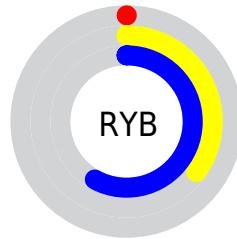
The XYZ color **12.7476, 22.0429, 14.8921** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **12.8111, 6.5355, 3.7196**, and the grayscale version is **11.6080, 12.2125, 13.2995**.

A 20% lighter version of the original color is **30.4475, 46.7813, 35.4419**, and **4.7586, 8.5960, 4.4260** is the 20% darker color. If you saturate the color by 10%, you get **12.7479, 22.0436, 14.8917**, and if you desaturate by 10%, it is **13.1876, 22.2419, 16.1950**.

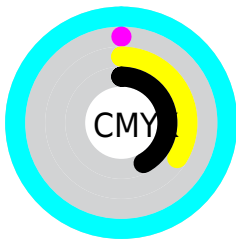
Distribution



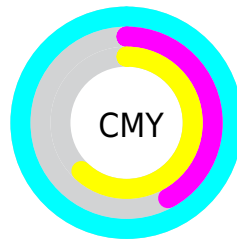
- Red (0%)
- Green (58%)
- Blue (38%)



- Red (0%)
- Yellow (35%)
- Blue (58%)



- Cyan (100%)
- Magenta (0%)
- Yellow (34%)
- Black (42%)





- Cyan (100%)
- Magenta (42%)
- Yellow (62%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7476, 22.0429, 14.8921 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 12.7476, 22.0429, 14.8921 by changing the saturation by 10% instead.


 12.7476, 22.0429,
14.8921


 12.7476, 22.0429,
14.8921


202.9641,
262.7702, 234.3304


 7.3308, 13.8884,
8.5979


 30.4548, 46.8169,
35.4034


 3.7180, 8.0431,
4.3866


 43.4758, 64.2052,
50.4576


 1.5439, 4.1225,
1.8398

 59.7623, 85.4402,
69.2689

 0.3554, 1.7423,
0.4540

 79.6797, 110.9064,
92.2558

 0.0000, 0.4509,
0.0000

 103.5931,
140.9881, 119.8368

 0.0000, 0.0000,
0.0000

 131.8681,

176.0697, 152.4306

164.8700,
216.5356, 190.4556

■ 12.7476, 22.0429,
14.8921

■ 12.7476, 22.0429,
14.8921

■ 12.7479, 22.0436,
14.8917

■ 13.1876, 22.2419,
16.1950

■ 13.7790, 22.5166,
17.5858

■ 14.5883, 22.9019,
19.0694

■ 15.6412, 23.4108,
20.6486

■ 16.9594, 24.0546,
22.3256

■ 18.5624, 24.8433,
24.1027

■ 20.4676, 25.7858,
25.9819

■ 22.6911, 26.8905,
27.9653

■ 25.2476, 28.1648,
30.0549

Harmonies

Analogous

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



15.1330, 22.0429, 7.6081



12.7476, 22.0429, 14.8921



12.3472, 22.0429, 28.8625

Triad

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



12.7476, 22.0429, 14.8921



22.5862, 22.0429, 66.4234



30.0112, 22.0429, 9.8481

Complementary

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



12.7476, 22.0429, 14.8921



12.8111, 6.5355, 3.7196

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.



32.8377, 22.0429, 19.7185



12.7476, 22.0429, 14.8921



28.0967, 22.0429, 54.9709

Square

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



12.7476, 22.0429, 14.8921



17.4666, 22.0429, 63.2920



32.0830, 22.0429, 36.2250



24.8707, 22.0429, 5.6767

Rectangle

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



12.7476, 22.0429, 14.8921



13.1790, 22.0429, 41.2419



32.0830, 22.0429, 36.2250



31.3001, 22.0429, 12.3920

Sweetspot

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



12.7482, 22.0438, 14.8926



35.8933, 45.3873, 45.6359



11.9967, 21.9056, 3.5962



7.8879, 10.2095, 10.1239



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.



12.7482, 22.0438, 14.8926



22.4089, 38.8601, 25.8362



12.7814, 17.0098, 30.6276



5.8801, 6.5286, 6.9793



10.9014, 18.8334, 12.7884



0.1473, 0.2361, 0.2298

Inverse Universe

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



12.8111, 6.5355, 3.7196



22.5295, 11.5011, 6.1726



12.5042, 6.8780, 0.6689



5.8784, 5.8464, 6.4657



10.9540, 5.5866, 3.2386



0.1469, 0.0735, 0.1074

Previews

White Background



This preview shows how the XYZ color 12.7476, 22.0429, 14.8921 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 12.7476, 22.0429, 14.8921 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 12.7476, 22.0429, 14.8921

Background



This preview shows how black text looks on a background with the XYZ color 12.7476, 22.0429, 14.8921.



This preview shows how white text looks on a background with the XYZ color 12.7476, 22.0429,

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

12.7476, 22.0429, 14.8921

Protanopia

20.3009, 21.9108, 12.6104

Deuteranopia

22.2335, 21.8786, 15.8831



Tritanopia

16.6908, 22.0797, 33.5191

Trichromacy



Original Color

12.7476, 22.0429, 14.8921



Protanomaly

14.7604, 20.4557, 13.2956



Deuteranomaly

15.4558, 20.1475, 15.3862



Tritanomaly

14.8341, 21.9633, 25.6478

Monochromacy



Original Color

12.7476, 22.0429, 14.8921



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.4366, 14.3968, 13.7841

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7476, 22.0429, 14.8921 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, 97)` looks like.

```
.text, #text, p{  
    color:rgb(0, 148, 97)  
}
```

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, 97) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 148, 97) }
```

Border

The CSS property to change the border of an element to XYZ 12.7476, 22.0429, 14.8921 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, 97) }
```


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

```
.border{ border-color:rgb(0, 148, 97) }
```

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, 97) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 148, 97); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 148, 97);  
box-shadow:4px 4px 4px 4px rgb(0, 148, 97)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7476, 22.0429, 14.8921 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, 97) }
```

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

```
.background{ background-color: rgb(0, 148,  
97) }
```

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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