Converting Colors

XYZ(8.2617, 20.0454, 15.1125)

Have a look what the booklet for XYZ(8.2617, 20.0454, 15.1125) contains.

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Color

XYZ(12.9521, 22.3767, 15.1918)

Conversions

Conversions Part 1

Format	Color
Hex	009562
RGB	0, 149, 98
RGB Percent	0%, 58%, 38%
CMY	0.9999, 0.4157, 0.6157
CMYK	1.00, 0.00, 0.34, 0.42
HSL	159°, 100%, 29%
HSV	159°, 100%, 58%
XYZ	12.9521, 22.3767, 15.1918
YIQ	98.6350, -72.4330, -47.4490

Conversions

Conversions Part 2

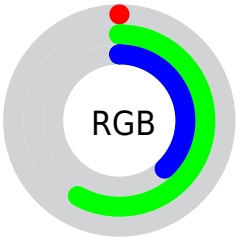
Format	Color
RYB	0, 90, 149
Decimal	38242
CIELab	54.42, -46.26, 17.69
CIELCh	54, 49.522, 159.072
Yxy	22.3767, 0.2564, 0.4429
Android (android.graphics.Color)	4278228322 (0xFF009562)
YUV	98.6350, -0.3131, -86.5029
Hunter-Lab	47.3040, -33.9077, 14.0717

Details

The XYZ color 12.9521, 22.3767, 15.1918 is a dark color, and the websafe version is hex 009966. A complement of this color would be 12.9929, 6.6293, 3.7286, and the grayscale version is 11.7832, 12.3969, 13.5002.

A 20% lighter version of the original color is 30.7640, 47.2870, 35.9396, and 4.8722, 8.7884, 4.5715 is the 20% darker color. If you saturate the color by 10%, you get 12.9522, 22.3774, 15.1910, and if you desaturate by 10%, it is 13.3968, 22.5778, 16.5108.

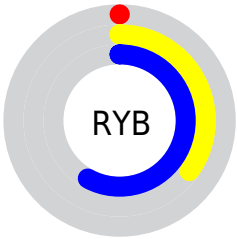
Distribution



Red (0%)

Green (58%)

Blue (38%)



Red (0%)

Yellow (35%)

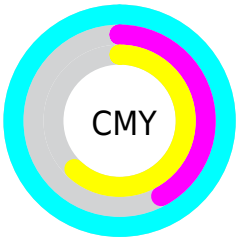
Blue (58%)

Cyan (100%)

Magenta (0%)

Yellow (34%)

Black (42%)



Cyan (100%)

Magenta (42%)

Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9521, 22.3767, 15.1918 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 12.9521, 22.3767, 15.1918 by changing the saturation by 10% instead.

12.9521, 22.3767, 15.1918

12.9521, 22.3767, 15.1918

204.2543, 264.5072, 236.2048

7.4723, 14.1340, 8.8060

30.8198, 47.3678, 35.9364

3.8082, 8.2139, 4.5198

43.9384, 64.8850, 51.1322

1.5942, 4.2321, 1.9146

60.3339, 86.2624, 70.1018

0.3886, 1.8042, 0.5020

80.3719, 111.8845, 93.2636

0.0000, 0.4898, 0.0000

104.4175, 142.1356, 121.0363

0.0000, 0.0000, 0.0000

132.8362,

177.4002, 153.8384

165.9934, 218.0626, 192.0884

12.9521, 22.3767, 15.1918

12.9522, 22.3774, 15.1910

12.9521, 22.3767, 15.1918

13.3968, 22.5778, 16.5108

13.9955, 22.8559, 17.9180

14.8153, 23.2462, 19.4186

15.8823, 23.7620, 21.0152

17.2186, 24.4148, 22.7100

18.8440, 25.2147, 24.5053

20.7762, 26.1707, 26.4033

23.0315, 27.2914, 28.4059

25.6251, 28.5844, 30.5151

Harmonies

Analogous

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

15.3590, 22.3767, 7.7751

12.9521, 22.3767, 15.1918

12.5564, 22.3767, 29.3735

Triad

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

12.9521, 22.3767, 15.1918

22.9522, 22.3767, 67.2510

30.4165, 22.3767, 9.9909

Complementary

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

12.9521, 22.3767, 15.1918

12.9929, 6.6293, 3.7286

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.

33.2923, 22.3767, 19.9599

12.9521, 22.3767, 15.1918

28.5270, 22.3767, 55.6106

Square

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

12.9521, 22.3767, 15.1918

17.7627, 22.3767, 64.1633

32.5477, 22.3767, 36.6398

25.2075, 22.3767, 5.7802

Rectangle

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

12.9521, 22.3767, 15.1918

13.4061, 22.3767, 41.9101

32.5477, 22.3767, 36.6398

31.7251, 22.3767, 12.5601

Sweetspot

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

12.9527, 22.3776, 15.1923

36.9755, 46.7524, 47.0674

12.1724, 22.2300, 3.6497

7.8911, 10.2108, 10.1407

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.

12.9527, 22.3776, 15.1923

23.1081, 40.0389, 26.7462

12.9700, 17.2597, 31.0826

5.8806, 6.5288, 6.9822

10.9150, 18.8388, 12.8599

0.1475, 0.2361, 0.2304

Inverse Universe

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

12.9929, 6.6293, 3.7286

23.1903, 11.8403, 6.2703

12.6888, 6.9776, 0.6785

5.8779, 5.8462, 6.4629

10.9475, 5.5841, 3.2047

0.1468, 0.0735, 0.1067

Previews

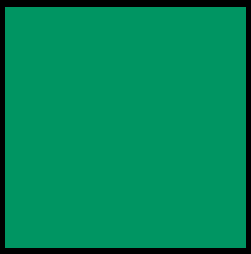
White Background

This preview shows how the XYZ color 12.9521, 22.3767, 15.1918 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 12.9521, 22.3767, 15.1918 looks on a black background.

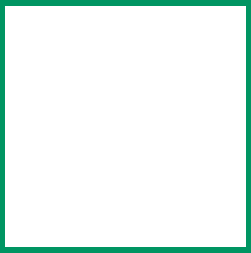
Color Contrast Check

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 12.9521, 22.3767, 15.1918 Background

This preview shows how black text looks on a background with the XYZ color 12.9521, 22.3767, 15.1918.



This preview shows how white text looks on a background with the XYZ color 12.9521, 22.3767,

15.1918.

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
12.9521, 22.3767, 15.1918

Protanopia
20.5109, 22.0141, 12.8410

Deuteranopia
22.4688, 21.9941, 16.1578

Tritanopia
16.9219, 22.4092, 34.0054

Trichromacy

Original Color
12.9521, 22.3767, 15.1918

Protanomaly
14.8998, 20.5225, 13.5319

Deuteranomaly
15.6097, 20.2212, 15.6507

Tritanomaly
15.0557, 22.2954, 26.0642

Monochromacy

Original Color
12.9521, 22.3767, 15.1918

Achromatopsia
11.8596, 12.4772, 13.5877

Achromatomaly
10.6633, 14.6802, 14.0759

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9521, 22.3767, 15.1918 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, 149, 98) looks like.

```
.text, #text, p{
    color:rgb(0, 149, 98)
}
```

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, 149, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 149, 98) }
```

Border

The CSS property to change the border of an element to XYZ 12.9521, 22.3767, 15.1918 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, 149, 98) }
```

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

```
.border{ border-color:rgb(0, 149, 98) }
```

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

Here you see how a box with a 4 pixel rgb(0, 149, 98) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 149, 98); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 149, 98); box-shadow:4px 4px 4px 4px rgb(0, 149, 98) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9521, 22.3767, 15.1918 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{
background:rgb(0, 149, 98) }
```

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

```
.background{ background-color:rgb(0, 149,
98) }
```

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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