

# Converting Colors

XYZ(13.7112, 22.8616, 18.6309)

Have a look what the booklet for  
XYZ(13.7112, 22.8616, 18.6309)  
contains.

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# Color

**XYZ(13.7756, 22.9604,  
18.7447)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00966F
RGB	0, 150, 111
RGB Percent	0%, 59%, 44%
CMY	1.0000, 0.4118, 0.5647
CMYK	1.00, 0.00, 0.26, 0.41
HSL	164°, 100%, 29%
HSV	164°, 100%, 59%
XYZ	13.7756, 22.9604, 18.7447
YIQ	100.7040, -76.8810, -43.9290

# Conversions

## Conversions Part 2

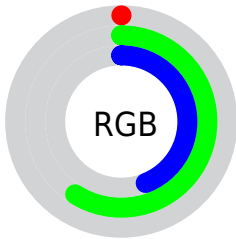
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 86, 150
Decimal	38511
CIELab	55.03, -43.53, 11.21
CIELCh	55, 44.950, 165.560
Yxy	22.9604, 0.2483, 0.4138
Android (android.graphics.Color)	4278228591 (0xFF00966F)
YUV	100.7040, 5.0759, -88.3174
Hunter-Lab	47.9170, -32.5380, 10.3482

# Details

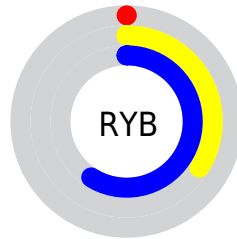
The XYZ color **13.7756, 22.9604, 18.7447** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **12.9447, 6.6311, 2.5183**, and the grayscale version is **12.2961, 12.9365, 14.0878**.

A 20% lighter version of the original color is **32.2799, 48.2854, 42.2690**, and **5.2649, 9.0942, 6.1805** is the 20% darker color. If you saturate the color by 10%, you get **13.7759, 22.9611, 18.7443**, and if you desaturate by 10%, it is **14.1928, 23.1507, 19.9106**.

# Distribution



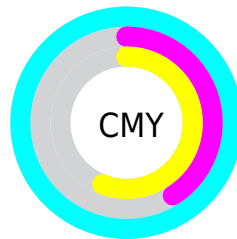
- Red (0%)
- Green (59%)
- Blue (44%)



- Red (0%)
- Yellow (34%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (26%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7756, 22.9604, 18.7447 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 13.7756, 22.9604, 18.7447 by changing the saturation by 10% instead.



■ 13.7756, 22.9604,  
18.7447

■ 13.7756, 22.9604,  
18.7447

209.3690,  
267.5215, 257.4113

■ 8.0454, 14.5643,  
11.3110

■ 32.2799, 48.3283,  
42.1332

■ 4.1761, 8.5142,  
6.1596

■ 45.7848, 66.0689,  
58.9251

■ 1.8022, 4.4257,  
2.8720

■ 62.6119, 87.6930,  
79.6734

■ 0.5190, 1.9144,  
1.0297

■ 83.1267, 113.5851,  
104.7968

■ 0.0000, 0.5570,  
0.0000

■ 107.6944,  
144.1297, 134.7137

■ 0.0000, 0.0000,  
0.0000

■ 136.6805,

179.7110, 169.8428

170.4502,  
220.7135, 210.6024

■ 13.7756, 22.9604,  
18.7447

■ 13.7756, 22.9604,  
18.7447

■ 13.7759, 22.9611,  
18.7443

■ 14.1928, 23.1507,  
19.9106

■ 14.7604, 23.4169,  
21.1325

■ 15.5461, 23.7943,  
22.4149

■ 16.5760, 24.2965,  
23.7594

■ 17.8726, 24.9352,  
25.1677

■ 19.4559, 25.7204,  
26.6414

■ 21.3436, 26.6614,  
28.1817

■ 23.5523, 27.7667,  
29.7901

■ 26.0973, 29.0442,  
31.4677

# Harmonies

## Analogous

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



15.6546, 22.9604, 10.2549



13.7756, 22.9604, 18.7447



13.8114, 22.9604, 33.1353

# Triad

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



13.7756, 22.9604, 18.7447



24.5045, 22.9604, 62.0007



29.2685, 22.9604, 10.0462

# Complementary

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



13.7756, 22.9604, 18.7447



12.9447, 6.6311, 2.5183

# 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.



32.4542, 22.9604, 18.3188



13.7756, 22.9604, 18.7447



29.4305, 22.9604, 49.6512

# Square

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



13.7756, 22.9604, 18.7447



19.5130, 22.9604, 62.2563



32.5176, 22.9604, 32.5118



24.3088, 22.9604, 6.6946



# Rectangle

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



13.7756, 22.9604, 18.7447



14.9006, 22.9604, 44.6693



32.5176, 22.9604, 32.5118



30.6136, 22.9604, 12.1650

# Sweetspot

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



13.7762, 22.9613, 18.7452



37.4501, 46.9422, 49.5664



11.7823, 22.2648, 3.6769



8.0075, 10.2573, 10.7533



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.



13.7762, 22.9613, 18.7452



24.2362, 40.4901, 32.6867



11.6367, 14.4647, 31.0339



5.9004, 6.5367, 7.0863



11.4385, 19.0482, 15.6168



0.1521, 0.2380, 0.2547



# Inverse Universe

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



12.9447, 6.6311, 2.5183



22.7811, 11.6766, 4.1153



13.1795, 7.6869, 0.7894



5.8590, 5.8387, 6.3638



10.7471, 5.5039, 2.1494



0.1422, 0.0716, 0.0825



# Previews

## White Background



This preview shows how the XYZ color 13.7756, 22.9604, 18.7447 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 13.7756, 22.9604, 18.7447 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

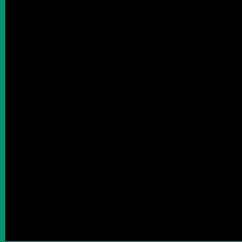
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 13.7756, 22.9604, 18.7447**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.7756, 22.9604, 18.7447.



This preview shows how white text looks on a background with the XYZ color 13.7756, 22.9604,



# 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

13.7756, 22.9604, 18.7447

### Protanopia

21.3298, 22.7674, 15.8407

### Deuteranopia

23.0077, 22.5722, 19.6672



## Tritanopia

17.2406, 22.9998, 34.9832

# Trichromacy



## Original Color

13.7756, 22.9604, 18.7447



## Protanomaly

15.7581, 21.3207, 16.6494



## Deuteranomaly

16.4206, 20.9757, 19.1029



## Tritanomaly

15.5776, 22.7425, 28.3797

# Monochromacy



## Original Color

13.7756, 22.9604, 18.7447



## Achromatopsia

12.3695, 13.0136, 14.1719



## Achromatomaly

11.2610, 15.3036, 15.7250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.7756, 22.9604, 18.7447 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, 150, 111)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 111)  
}
```

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, 150, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 13.7756, 22.9604, 18.7447 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, 150, 111) }
```



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

```
.border{ border-color:rgb(0, 150, 111) }
```

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

Here you see how a box with a 4 pixel rgb(0, 150, 111) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 111);  
box-shadow:4px 4px 4px 4px rgb(0, 150,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.7756, 22.9604, 18.7447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 111) }
```

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

```
.background{ background-color: rgb(0, 150,  
111) }
```

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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