

# Converting Colors

XYZ(17.7766, 28.3836, 14.6669)

Have a look what the booklet for  
XYZ(17.7766, 28.3836, 14.6669)  
contains.

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# Color

**XYZ(17.7766, 28.3836,  
14.6669)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49A35C
RGB	73, 163, 92
RGB Percent	29%, 64%, 36%
CMY	0.7137, 0.3608, 0.6392
CMYK	0.55, 0.00, 0.44, 0.36
HSL	133°, 38%, 46%
HSV	133°, 55%, 64%
XYZ	17.7766, 28.3836, 14.6669
YIQ	127.9960, -30.8490, -41.1610

# Conversions

## Conversions Part 2

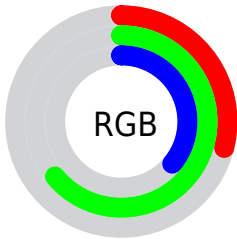
<b>Format</b>	<b>Color</b>
<b>RYB</b>	73, 147, 163
Decimal	4825948
CIELab	60.23, -42.65, 28.91
CIElCh	60, 51.531, 145.868
Yxy	28.3836, 0.2922, 0.4666
Android (android.graphics.Color)	4283016028 (0xFF49A35C)
YUV	127.9960, -17.7460, -48.2315
Hunter-Lab	53.2763, -33.6737, 20.9709

# Details

The XYZ color **17.7766, 28.3836, 14.6669** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **22.5217, 14.5657, 28.0106**, and the grayscale version is **20.5843, 21.6563, 23.5837**.

A 20% lighter version of the original color is **39.3427, 57.3133, 34.9756**, and **6.0306, 11.3337, 4.2527** is the 20% darker color. If you saturate the color by 10%, you get **16.1846, 27.6232, 11.9033**, and if you desaturate by 10%, it is **19.7892, 29.3514, 17.9496**.

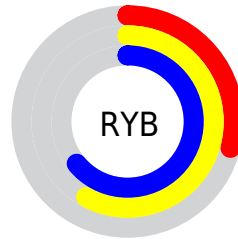
# Distribution



Red (29%)

Green (64%)

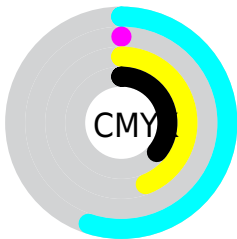
Blue (36%)



Red (29%)

Yellow (58%)

Blue (64%)

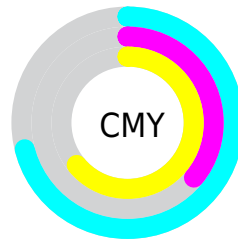


Cyan (55%)

Magenta (0%)

Yellow (44%)

Black (36%)



Cyan (71%)

Magenta (36%)


Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 17.7766, 28.3836, 14.6669 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 17.7766, 28.3836, 14.6669 by changing the saturation by 10% instead.





 17.7766, 28.3836,  
14.6669

 17.7766, 28.3836,  
14.6669


232.6788,  
294.2954, 232.9120


 10.8884, 18.6150,  
8.4419


 39.1894, 57.0963,  
35.0018


 6.0586, 11.3924,  
4.2872


 54.4447, 76.8092,  
49.9487


 2.9217, 6.3314,  
1.7842


 73.2197, 100.6057,  
68.6401

 1.1125, 3.0476,  
0.4175

 95.8799, 128.8701,  
91.4944

 0.0355, 1.1567,  
0.0000

 122.7905,  
161.9869, 118.9302

 0.0000, 0.0259,  
0.0000

154.3170,

 0.0000, 0.0000,

200.3405, 151.3661

0.0000

190.8247,  
244.3152, 189.2205

■ 17.7766, 28.3836,  
14.6669

■ 17.7766, 28.3836,  
14.6669

■ 16.1846, 27.6232,  
11.9033

■ 19.7892, 29.3514,  
17.9496

■ 14.9802, 27.0514,  
9.6302

■ 22.2477, 30.5367,  
21.7740

■ 14.1293, 26.6519,  
7.8193

■ 25.1781, 31.9532,  
26.1640

■ 13.5881, 26.4030,  
6.4385

■ 28.6036, 33.6125,  
31.1412

■ 13.3925, 26.3134,  
5.9180

■ 32.5459, 35.5253,  
36.7262

■ 37.0254, 37.7017,  
42.9385

■ 42.0614, 40.1513,  
49.7970

■ 47.6723, 42.8831,  
57.3196

■ 53.8755, 45.9059,  
65.5233

# Harmonies

## Analogous

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



21.8104, 28.3836, 8.3791



17.7766, 28.3836, 14.6669



16.1954, 28.3836, 28.3591

# Triad

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



17.7766, 28.3836, 14.6669



26.0735, 28.3836, 83.1849



40.0855, 28.3836, 17.6038

# Complementary

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



17.7766, 28.3836, 14.6669



22.5217, 14.5657, 28.0106

# 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.



41.7203, 28.3836, 33.5988



17.7766, 28.3836, 14.6669



32.9029, 28.3836, 76.5073

# Square

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



17.7766, 28.3836, 14.6669



20.4644, 28.3836, 71.8137



38.9065, 28.3836, 56.1164



34.7444, 28.3836, 9.5248



# Rectangle

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



17.7766, 28.3836, 14.6669



16.5182, 28.3836, 41.9471



38.9065, 28.3836, 56.1164



41.1205, 28.3836, 21.9935

# Sweetspot

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



17.7773, 28.3848, 14.6675



49.8609, 59.5338, 53.8082



25.9779, 32.6966, 11.2453



10.9306, 13.2412, 11.6978



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



17.7773, 28.3848, 14.6675



28.4969, 49.2369, 20.4302



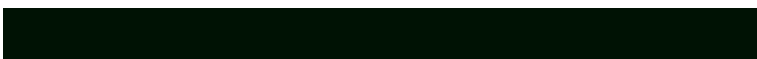
20.2896, 29.3897, 27.8969



7.0439, 7.9184, 7.8430



10.4222, 20.4552, 4.6737



0.2345, 0.4360, 0.1800



# Inverse Universe

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



22.5217, 14.5657, 28.0106



37.8253, 21.9587, 46.5867



19.7878, 13.4721, 13.6144



7.3000, 7.1764, 8.5661



14.8140, 7.2817, 16.7430



0.3265, 0.1591, 0.4319



# Previews

## White Background



This preview shows how the XYZ color 17.7766, 28.3836, 14.6669 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 17.7766, 28.3836, 14.6669 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 17.7766, 28.3836, 14.6669**

## **Background**



This preview shows how black text looks on a background with the XYZ color 17.7766, 28.3836, 14.6669.



This preview shows how white text looks on a background with the XYZ color 17.7766, 28.3836,



# 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

17.7766, 28.3836, 14.6669

### Protanopia

25.7135, 27.8715, 12.6188

### Deuteranopia

28.5267, 27.9430, 15.4453



## Tritanopia

22.9443, 28.1765, 40.7885

# Trichromacy



**Original Color**

17.7766, 28.3836, 14.6669

**Protanomaly**

21.5805, 27.3498, 13.3742

**Deuteranomaly**

22.8616, 27.0303, 15.0788

**Tritanomaly**

20.5369, 27.9387, 29.1212

# Monochromacy



**Original Color**

17.7766, 28.3836, 14.6669

**Achromatopsia**

20.5175, 21.5861, 23.5072

**Achromatomaly**

18.8037, 23.4757, 19.7599

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 17.7766, 28.3836, 14.6669 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(73, 163, 92)` looks like.

```
.text, #text, p{  
    color:rgb(73, 163, 92)  
}
```

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(73, 163, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 163, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 17.7766, 28.3836, 14.6669 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(73, 163, 92) }
```



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

```
.border{ border-color:rgb(73, 163, 92) }
```

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

Here you see how a box with a 4 pixel rgb(73, 163, 92) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 163, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 163, 92);  
box-shadow:4px 4px 4px 4px rgb(73, 163,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 17.7766, 28.3836, 14.6669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 163, 92) }
```

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

```
.background{ background-color: rgb(73, 163,  
92) }
```

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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