

# Converting Colors

XYZ(28.0948, 37.5447, 18.0686)

Have a look what the booklet for  
XYZ(28.0948, 37.5447, 18.0686)  
contains.

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# Color

**XYZ(28.0628, 37.5348,  
18.0778)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	87B165
RGB	135, 177, 101
RGB Percent	53%, 69%, 40%
CMY	0.4706, 0.3059, 0.6039
CMYK	0.24, 0.00, 0.43, 0.31
HSL	93°, 33%, 55%
HSV	93°, 43%, 69%
XYZ	28.0628, 37.5348, 18.0778
YIQ	155.7780, -0.6360, -32.5400

# Conversions

## Conversions Part 2

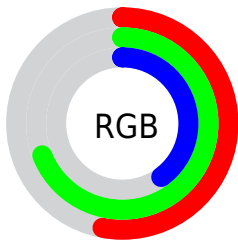
<b>Format</b>	<b>Color</b>
<b>RYB</b>	101, 177, 143
Decimal	8892773
CIELab	67.68, -27.73, 34.35
CIELCh	68, 44.144, 128.919
Yxy	37.5348, 0.3354, 0.4486
Android (android.graphics.Color)	4287082853 (0xFF87B165)
YUV	155.7780, -27.0056, -18.2223
Hunter-Lab	61.2657, -25.4528, 25.3911

# Details

The XYZ color **28.0628, 37.5348, 18.0778** is a dark color, and the websafe version is hex **99CC66**. A complement of this color would be **23.9188, 18.3224, 43.8730**, and the grayscale version is **31.6186, 33.2652, 36.2258**.

A 20% lighter version of the original color is **56.1239, 71.5249, 40.9846**, and **11.3948, 16.5022, 5.8335** is the 20% darker color. If you saturate the color by 10%, you get **25.7852, 36.4515, 13.9216**, and if you desaturate by 10%, it is **30.6737, 38.7707, 23.2261**.

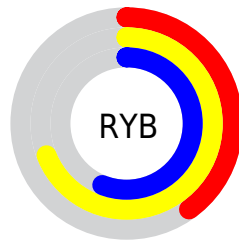
# Distribution



Red (53%)

Green (69%)

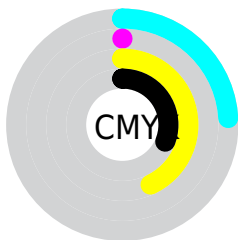
Blue (40%)



Red (40%)

Yellow (69%)

Blue (56%)

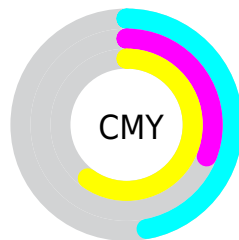


Cyan (24%)

Magenta (0%)

Yellow (43%)

Black (31%)



Cyan (47%)

Magenta (31%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.0628, 37.5348, 18.0778 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 28.0628, 37.5348, 18.0778 by changing the saturation by 10% instead.



■ 28.0628, 37.5348,  
18.0778

■ 28.0628, 37.5348,  
18.0778

284.8415,  
335.6202, 253.5600

■ 18.5137, 25.6218,  
10.8358

■ 55.9926, 71.3945,  
40.9856

■ 11.4213, 16.5409,  
5.8438

■ 75.1041, 94.1101,  
57.4885

■ 6.4204, 9.9077,  
2.6831

■ 98.1337, 121.1953,  
77.9154

■ 3.1454, 5.3378,  
0.9349

■ 125.4468,  
153.0346, 102.6850

■ 1.2311, 2.4468,  
0.0000

157.4088,  
190.0123, 132.2157

■ 0.1307, 0.8498,  
0.0000

194.3850,

■ 0.0000, 0.0000,

232.5129, 166.9261

0.0000

236.7408,  
280.9207, 207.2347

■ 28.0628, 37.5348,  
18.0778

■ 28.0628, 37.5348,  
18.0778

■ 25.7852, 36.4515,  
13.9216

■ 30.6737, 38.7707,  
23.2261

■ 23.8222, 35.5090,  
10.6912

■ 33.6298, 40.1606,  
29.4223

■ 22.1571, 34.7014,  
8.3158


■ 36.9460, 41.7120,  
36.7210

■ 20.7701, 34.0204,  
6.7137


■ 40.6350, 43.4305,  
45.1722

■ 19.6383, 33.4563,  
5.7868

■ 44.7093, 45.3215,  
54.8230

 18.9624, 33.1159,  
5.3926

 49.1804, 47.3899,  
65.7178

 54.0594, 49.6406,  
77.8986

 59.3571, 52.0781,  
91.4056

 64.2174, 54.3606,  
101.7158

# Harmonies

## Analogous

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



33.6830, 37.5348, 13.8812



28.0628, 37.5348, 18.0778



24.7956, 37.5348, 28.8058

# Triad

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



28.0628, 37.5348, 18.0778



31.1684, 37.5348, 86.8197



50.2446, 37.5348, 35.3239

# Complementary

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



28.0628, 37.5348, 18.0778



23.9188, 18.3224, 43.8730

# 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.



49.3476, 37.5348, 55.9024



28.0628, 37.5348, 18.0778



37.7455, 37.5348, 90.2637

# Square

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



28.0628, 37.5348, 18.0778



26.4236, 37.5348, 69.2584



44.5542, 37.5348, 77.5579



46.8689, 37.5348, 21.5407



# Rectangle

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



28.0628, 37.5348, 18.0778



24.1159, 37.5348, 40.1656



44.5542, 37.5348, 77.5579



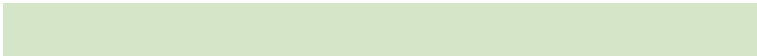
50.4410, 37.5348, 41.5806

# Sweetspot

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



28.0637, 37.5364, 18.0786



65.9879, 74.6180, 65.3633



30.2744, 29.8731, 16.4829



14.0108, 16.0355, 13.5174



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



28.0637, 37.5364, 18.0786



46.1971, 65.2892, 24.9648



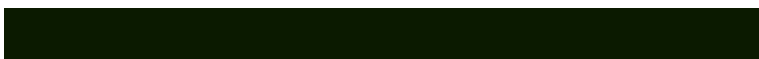
23.6297, 35.2286, 18.8658



8.7379, 9.6699, 9.0585



13.8061, 24.0274, 3.9101



0.5019, 0.7908, 0.1262



# Inverse Universe

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



23.9188, 18.3224, 43.8730



37.7366, 26.1151, 77.5471



30.3489, 21.6804, 42.2239



8.4759, 8.4539, 10.6914



9.4561, 4.2106, 30.4513



0.3635, 0.1665, 0.9612



# Previews

## White Background



This preview shows how the XYZ color 28.0628, 37.5348, 18.0778 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 28.0628, 37.5348, 18.0778 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

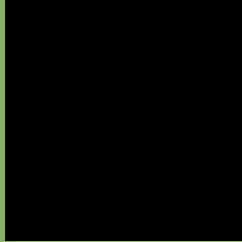
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 28.0628, 37.5348, 18.0778**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.0628, 37.5348, 18.0778.



This preview shows how white text looks on a background with the XYZ color 28.0628, 37.5348,



# 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

28.0628, 37.5348, 18.0778

### Protanopia

34.2092, 37.0987, 16.4241

### Deuteranopia

37.9472, 37.1603, 18.8083



## Tritanopia

34.3757, 37.5445, 49.1511

# Trichromacy



## Original Color

28.0628, 37.5348, 18.0778

## Protanomaly

31.7024, 37.1503, 17.0551

## Deuteranomaly

33.4533, 36.6644, 18.4105

## Tritanomaly

31.5581, 37.2325, 35.2291

# Monochromacy



## Original Color

28.0628, 37.5348, 18.0778

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

29.9321, 34.6244, 28.3981

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.0628, 37.5348, 18.0778 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(135, 177, 101)` looks like.

```
.text, #text, p{  
    color:rgb(135, 177, 101)  
}
```

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(135, 177, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 177, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 28.0628, 37.5348, 18.0778 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(135, 177, 101) }
```



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

```
.border{ border-color:rgb(135, 177, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 177, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 177, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 177, 101);  
box-shadow:4px 4px 4px 4px rgb(135, 177,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.0628, 37.5348, 18.0778 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 177, 101) }
```

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

```
.background{ background-color: rgb(135,  
177, 101) }
```

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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