

# Converting Colors

XYZ(58.1609, 53.3283, 13.0388)

Have a look what the booklet for  
XYZ(58.1609, 53.3283, 13.0388)  
contains.

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# Color

**XYZ(58.0676, 53.1465,  
12.9922)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB146
RGB	255, 177, 70
RGB Percent	100%, 69%, 27%
CMY	0.0000, 0.3059, 0.7255
CMYK	0.00, 0.31, 0.73, 0.00
HSL	35°, 100%, 64%
HSV	35°, 73%, 100%
XYZ	58.0676, 53.1465, 12.9922
YIQ	188.1240, 80.8350, -16.7410

# Conversions

## Conversions Part 2

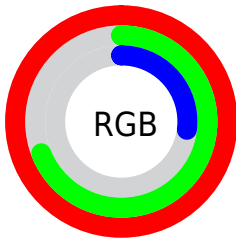
Format	Color
<a href="#">RYB</a>	<a href="#">205, 255, 70</a>
Decimal	<a href="#">16757062</a>
<a href="#">CIELab</a>	<a href="#">77.96, 19.26, 63.54</a>
<a href="#">CIELCh</a>	<a href="#">78, 66.394, 73.140</a>
<a href="#">Yxy</a>	<a href="#">53.1465, 0.4675, 0.4279</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4294947142 (0xFFFFB146)</a>
<a href="#">YUV</a>	<a href="#">188.1240, -58.2351, 58.6503</a>
<a href="#">Hunter-Lab</a>	<a href="#">72.9016, 14.6009, 40.4648</a>

# Details

The XYZ color **58.0676, 53.1465, 12.9922** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.1651, 29.7006, 98.6971**, and the grayscale version is **48.1604, 50.6684, 55.1779**.

A 20% lighter version of the original color is **74.0170, 80.9931, 30.8009**, and **29.2219, 25.7615, 3.5472** is the 20% darker color. If you saturate the color by 10%, you get **55.3867, 48.8114, 8.9352**, and if you desaturate by 10%, it is **61.2597, 57.9582, 18.9052**.

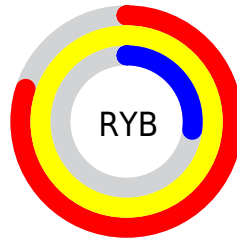
# Distribution



Red (100%)

Green (69%)

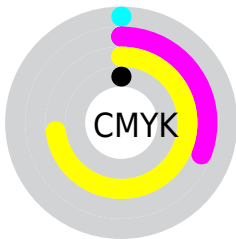
Blue (27%)



Red (80%)

Yellow (100%)

Blue (27%)

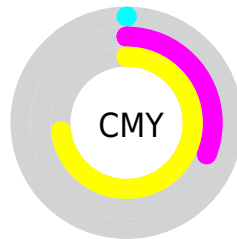


Cyan (0%)

Magenta (31%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (31%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.0676, 53.1465, 12.9922 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 58.0676, 53.1465, 12.9922 by changing the saturation by 10% instead.





 58.0676, 53.1465,  
12.9922

 58.0676, 53.1465,  
12.9922


407.3876,  
398.8469, 222.0737


 42.1065, 37.9197,  
7.2925


 101.1437, 94.8199,  
31.9808

 29.3761, 25.9204,  
3.5645


 128.9894,  
122.0353, 46.1067


 19.5113, 16.7641,  
1.3896

 161.5273,  
154.0158, 63.8785

 12.1465, 10.0664,  
0.1336

 199.1227,  
191.1456, 85.7146

 6.9164, 5.4430,  
0.0000

 242.1412,  
233.8093, 112.0337

 3.4557, 2.5095,  
0.0000

290.9479,

 1.3991, 0.8814,

282.3911, 143.2542

0.0000

345.9082,  
337.2755, 179.7947

■ 0.2556, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.0676, 53.1465,  
12.9922

■ 58.0676, 53.1465,  
12.9922

■ 55.3867, 48.8114,  
8.9352

■ 61.2597, 57.9582,  
18.9052

■ 53.1630, 44.9184,  
6.4844

■ 65.0015, 63.2612,  
26.8749

■ 51.7504, 42.2814,  
5.4336

■ 69.3312, 69.0787,  
37.0792

■ 74.2819, 75.4296,  
49.6756

■ 79.8841, 82.3314,  
64.8073

■ 86.1658, 89.8006,  
82.6060

■ 93.1533, 97.8528,  
103.1944

■ 95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



70.8966, 53.1465, 21.5778



58.0676, 53.1465, 12.9922



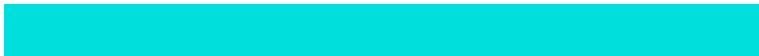
45.0746, 53.1465, 12.5555

# Triad

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



58.0676, 53.1465, 12.9922



29.9783, 53.1465, 75.5949



69.4764, 53.1465, 126.8566

# Complementary

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



58.0676, 53.1465, 12.9922



31.1651, 29.7006, 98.6971

# 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.



56.3746, 53.1465, 158.4834



58.0676, 53.1465, 12.9922



34.4686, 53.1465, 121.4238

# Square

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



58.0676, 53.1465, 12.9922



30.2741, 53.1465, 39.5875



43.6459, 53.1465, 156.1545



78.2141, 53.1465, 81.0534



# Rectangle

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



58.0676, 53.1465, 12.9922



38.1138, 53.1465, 16.3981



43.6459, 53.1465, 156.1545



65.3488, 53.1465, 140.2256

# Sweetspot

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



58.0688, 53.1492, 12.9932



80.2109, 82.7262, 65.7122



48.9486, 27.8480, 31.7206



16.8270, 17.2926, 13.1231



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



58.0688, 53.1492, 12.9932



54.3439, 47.0252, 7.6624



73.7123, 90.9570, 19.4663



18.8821, 19.7323, 18.9579



27.1920, 22.3952, 2.8895



2.7558, 2.3969, 0.3174



# Inverse Universe

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



31.1651, 29.7006, 98.6971



26.2300, 22.6418, 97.5956



23.7493, 13.4097, 95.9435



17.6324, 18.6364, 22.9178



12.3464, 9.6024, 50.6373



1.3074, 1.1455, 4.9655



# Previews

## White Background



This preview shows how the XYZ color 58.0676, 53.1465, 12.9922 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 58.0676, 53.1465, 12.9922 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 58.0676, 53.1465, 12.9922

## Background



This preview shows how black text looks on a background with the XYZ color 58.0676, 53.1465, 12.9922.



This preview shows how white text looks on a background with the XYZ color 58.0676, 53.1465,



# 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

58.0676, 53.1465, 12.9922

### Protanopia

48.3643, 53.0950, 14.3559

### Deuteranopia

54.2525, 52.9851, 12.8366



## Tritanopia

63.6662, 52.9312, 50.0412

# Trichromacy



## Original Color

58.0676, 53.1465, 12.9922

## Protanomaly

51.6060, 52.8447, 13.7834

## Deuteranomaly

55.6041, 53.0702, 12.9432

## Tritanomaly

60.7261, 52.6585, 31.7744

# Monochromacy



## Original Color

58.0676, 53.1465, 12.9922

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

49.4027, 50.3224, 33.8974

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.0676, 53.1465, 12.9922 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(255, 177, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 177, 70)  
}
```

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(255, 177, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 177, 70) }
```

## Border

The CSS property to change the border of an element to XYZ 58.0676, 53.1465, 12.9922 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(255, 177, 70) }
```



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

```
.border{ border-color:rgb(255, 177, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 177, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 177, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 177, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 177,  
70) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.0676, 53.1465, 12.9922 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 177, 70) }
```

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

```
.background{ background-color: rgb(255,  
177, 70) }
```

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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