

# Converting Colors

XYZ(56.4021, 49.3570, 13.8502)

Have a look what the booklet for  
XYZ(56.4021, 49.3570, 13.8502)  
contains.

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# Color

**XYZ(56.4339, 49.4475,  
13.7777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA74E
RGB	255, 167, 78
RGB Percent	100%, 65%, 31%
CMY	0.0000, 0.3451, 0.6941
CMYK	0.00, 0.35, 0.69, 0.00
HSL	30°, 100%, 65%
HSV	30°, 69%, 100%
XYZ	56.4339, 49.4475, 13.7777
YIQ	183.1660, 81.0170, -9.0230

# Conversions

## Conversions Part 2

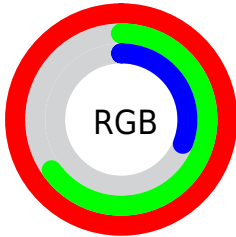
Format	Color
<a href="#">RYB</a>	<a href="#">253, 255, 78</a>
Decimal	<a href="#">16754510</a>
CIELab	<a href="#">75.73, 24.86, 57.75</a>
CIElCh	<a href="#">76, 62.870, 66.705</a>
Yxy	<a href="#">49.4475, 0.4716, 0.4132</a>
Android (android.graphics.Color)	<a href="#">4294944590 (0xFFFFA74E)</a>
YUV	<a href="#">183.1660, -51.8468, 62.9984</a>
Hunter-Lab	<a href="#">70.3189, 20.1957, 37.6065</a>

# Details

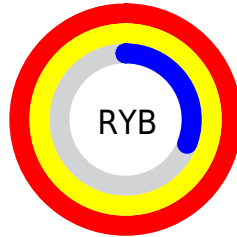
The XYZ color **56.4339, 49.4475, 13.7777** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **34.8273, 36.1104, 99.7416**, and the grayscale version is **45.3467, 47.7083, 51.9543**.

A 20% lighter version of the original color is **71.4580, 75.1412, 32.2102**, and **28.2777, 23.6608, 3.8872** is the 20% darker color. If you saturate the color by 10%, you get **53.4811, 44.7327, 9.1240**, and if you desaturate by 10%, it is **59.9708, 54.7644, 20.3745**.

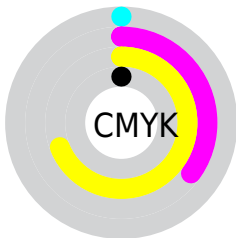
# Distribution



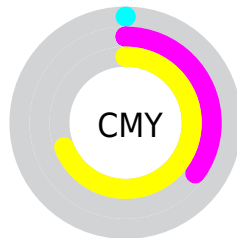
- Red (100%)
- Green (65%)
- Blue (31%)



- Red (99%)
- Yellow (100%)
- Blue (31%)



- Cyan (0%)
- Magenta (35%)
- Yellow (69%)
- Black (0%)




- Cyan (0%)
- Magenta (35%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.4339, 49.4475, 13.7777 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 56.4339, 49.4475, 13.7777 by changing the saturation by 10% instead.





 56.4339, 49.4475,  
13.7777


 56.4339, 49.4475,  
13.7777


401.3732,  
384.5014, 227.2236

 40.7893, 34.9746,  
7.8292


 98.7748, 89.3557,  
33.4055

 28.3414, 23.6433,  
3.8997


 126.2019,  
115.5598, 47.9219


 18.7249, 15.0692,  
1.5705


 158.2871,  
146.4431, 66.1314

 11.5745, 8.8680,  
0.2696

 195.3958,  
182.3900, 88.4525

 6.5248, 4.6552,  
0.0000

 237.8934,  
223.7849, 115.3037

 3.2104, 2.0464,  
0.0000

286.1453,

 1.2660, 0.6342,

271.0122, 147.1036

0.0000

340.5168,  
324.4562, 184.2707

■ 0.1575, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.4339, 49.4475,  
13.7777

■ 56.4339, 49.4475,  
13.7777

■ 53.4811, 44.7327,  
9.1240

■ 59.9708, 54.7644,  
20.3745

■ 51.0591, 40.5819,  
6.1791

■ 64.1315, 60.7031,  
29.1066

■ 49.0951, 36.9573,  
4.5890

■ 68.9550, 67.2907,  
40.1459

■ 48.9888, 36.7579,  
4.5130

■ 74.4759, 74.5506,  
53.6458

80.7262, 82.5043,  
69.7464

87.7353, 91.1724,  
88.5770

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



67.3617, 49.4475, 23.8591



56.4339, 49.4475, 13.7777



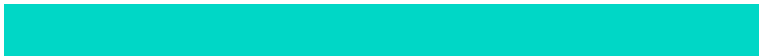
44.4290, 49.4475, 11.9339

# Triad

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



56.4339, 49.4475, 13.7777



28.0632, 49.4475, 61.6899



61.7124, 49.4475, 123.4668

# Complementary

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



56.4339, 49.4475, 13.7777



34.8273, 36.1104, 99.7416

# 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.



49.6649, 49.4475, 146.0995



56.4339, 49.4475, 13.7777



31.2179, 49.4475, 102.0575

# Square

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



56.4339, 49.4475, 13.7777



29.2673, 49.4475, 32.2302



38.6779, 49.4475, 136.9677



70.7443, 49.4475, 83.4335



# Rectangle

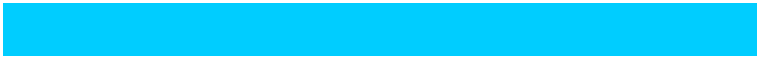
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



56.4339, 49.4475, 13.7777



37.6259, 49.4475, 14.4388



38.6779, 49.4475, 136.9677



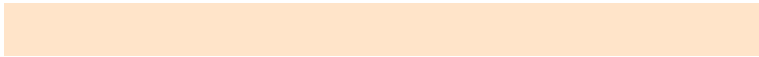
57.8108, 49.4475, 133.9807

# Sweetspot

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



56.4350, 49.4500, 13.7786



79.6832, 81.1933, 67.0084



50.8934, 29.4807, 39.3258



16.6772, 16.9002, 13.3591



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.



56.4350, 49.4500, 13.7786



52.5538, 43.1796, 7.8839



78.3748, 93.3296, 21.0919



18.7642, 19.4966, 18.9186



25.7473, 19.5059, 2.4080



2.6162, 2.1177, 0.2709



# Inverse Universe

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



34.8273, 36.1104, 99.7416



29.7405, 29.1002, 98.6572



23.9166, 14.2890, 96.1047



17.7490, 18.8696, 22.9567



13.5308, 11.9711, 51.0321



1.4266, 1.3839, 5.0052



# Previews

## White Background



This preview shows how the XYZ color 56.4339, 49.4475, 13.7777 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 56.4339, 49.4475, 13.7777 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 56.4339, 49.4475, 13.7777**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.4339, 49.4475, 13.7777.



This preview shows how white text looks on a background with the XYZ color 56.4339, 49.4475,



# 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

56.4339, 49.4475, 13.7777

### Protanopia

45.3830, 49.5906, 15.5675

### Deuteranopia

50.7947, 49.6724, 13.5672



## Tritanopia

61.1615, 49.3419, 44.8285

# Trichromacy



## Original Color

56.4339, 49.4475, 13.7777

## Protanomaly

48.8956, 49.2593, 14.9136

## Deuteranomaly

52.7162, 49.4947, 13.6125

## Tritanomaly

58.8525, 49.2605, 30.0733

# Monochromacy



## Original Color

56.4339, 49.4475, 13.7777

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

47.1275, 47.0439, 33.3846

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.4339, 49.4475, 13.7777 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, 167, 78)` looks like.

```
.text, #text, p{  
    color:rgb(255, 167, 78)  
}
```

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, 167, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 167, 78) }
```

## Border

The CSS property to change the border of an element to XYZ 56.4339, 49.4475, 13.7777 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, 167, 78) }
```



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

```
.border{ border-color:rgb(255, 167, 78) }
```

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

Here you see how a box with a 4 pixel rgb(255, 167, 78) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 167, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 167, 78);  
box-shadow:4px 4px 4px 4px rgb(255, 167,  
78) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.4339, 49.4475, 13.7777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 167, 78) }
```

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

```
.background{ background-color: rgb(255,  
167, 78) }
```

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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