

# Converting Colors

XYZ(49.5554, 40.6193, 10.2823)

Have a look what the booklet for  
XYZ(49.5554, 40.6193, 10.2823)  
contains.

<b>XYZ(49.5908, 40.7136, 10.2458)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(49.5908, 40.7136,  
10.2458)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F79241
RGB	247, 146, 65
RGB Percent	97%, 57%, 25%
CMY	0.0314, 0.4274, 0.7451
CMYK	0.00, 0.41, 0.74, 0.03
HSL	27°, 92%, 61%
HSV	27°, 74%, 97%
XYZ	49.5908, 40.7136, 10.2458
YIQ	166.9650, 86.1970, -3.7790

# Conversions

## Conversions Part 2

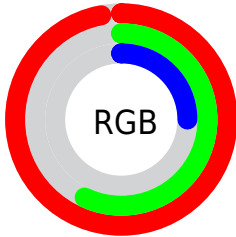
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	247, 211, 65
Decimal	16224833
CIE Lab	69.97, 31.94, 57.26
CIE LCh	70, 65.570, 60.847
Yxy	40.7136, 0.4932, 0.4049
Android (android.graphics.Color)	4294414913 (0xFFFF79241)
YUV	166.9650, -50.2687, 70.1907
Hunter-Lab	63.8072, 27.0671, 35.1446

# Details

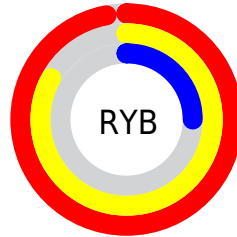
The XYZ color **49.5908, 40.7136, 10.2458** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **32.6037, 35.1096, 93.0535**, and the grayscale version is **36.9224, 38.8453, 42.3025**.

A 20% lighter version of the original color is **65.3375, 64.3176, 25.8005**, and **24.0432, 18.3328, 2.4437** is the 20% darker color. If you saturate the color by 10%, you get **47.0378, 36.5136, 6.6032**, and if you desaturate by 10%, it is **52.7115, 45.5496, 15.6203**.

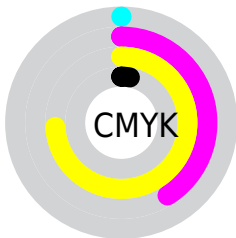
# Distribution



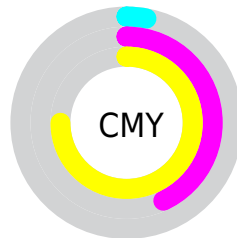
- Red (97%)
- Green (57%)
- Blue (25%)



- Red (97%)
- Yellow (83%)
- Blue (25%)



- Cyan (0%)
- Magenta (41%)
- Yellow (74%)
- Black (3%)




- Cyan (3%)
- Magenta (43%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.5908, 40.7136, 10.2458 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 49.5908, 40.7136, 10.2458 by changing the saturation by 10% instead.





 49.5908, 40.7136,  
10.2458


 49.5908, 40.7136,  
10.2458


375.5421,  
349.1222, 202.9656

 35.3048, 28.0954,  
5.4545


 88.7637, 76.2489,  
26.8718

 24.0654, 18.3976,  
2.4530


 114.3814, 99.9348,  
39.5436


 15.5071, 11.2358,  
0.8151


 144.5071,  
128.0787, 55.6793

 9.2647, 6.2257,  
0.0000

 179.5060,  
161.0650, 75.6975

 4.9727, 2.9828,  
0.0000

 219.7437,  
199.2781, 100.0167

 2.2659, 1.1227,  
0.0000

265.5853,

 0.7771, 0.0000,

243.1024, 129.0554

0.0000

317.3963,  
292.9223, 163.2322

■ 0.0000, 0.0000,  
0.0000

■ 49.5908, 40.7136,  
10.2458

■ 49.5908, 40.7136,  
10.2458

■ 47.0378, 36.5136,  
6.6032

■ 52.7115, 45.5496,  
15.6203

■ 44.9968, 32.9077,  
4.4550


■ 56.4419, 51.0465,  
22.9180


■ 43.9266, 30.9123,  
3.6515


■ 60.8223, 57.2352,  
32.3071

■ 65.8880, 64.1423,  
43.9363

■ 71.6719, 71.7927,  
57.9410

 78.2042, 80.2100,  
74.4455

 85.5133, 89.4164,  
93.5654

 92.1675, 98.5140,  
108.7651

# Harmonies

## Analogous

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



59.1470, 40.7136, 20.4907



49.5908, 40.7136, 10.2458



38.3943, 40.7136, 7.6896

# Triad

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



49.5908, 40.7136, 10.2458



21.5777, 40.7136, 45.2054



50.2138, 40.7136, 116.4453

# Complementary

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



49.5908, 40.7136, 10.2458



32.6037, 35.1096, 93.0535

# 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.



39.0014, 40.7136, 133.0040



49.5908, 40.7136, 10.2458



23.6051, 40.7136, 81.8526

# Square

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



49.5908, 40.7136, 10.2458



23.3874, 40.7136, 21.4042



29.5283, 40.7136, 118.1085



59.5507, 40.7136, 79.6069



# Rectangle

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



49.5908, 40.7136, 10.2458



31.8377, 40.7136, 8.9485



29.5283, 40.7136, 118.1085



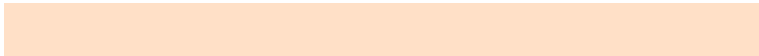
46.4770, 40.7136, 125.1653

# Sweetspot

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



49.5917, 40.7157, 10.2465



78.1578, 78.6201, 65.0278



47.3283, 26.3870, 39.7100



16.3430, 16.3246, 12.9618



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.



49.5917, 40.7157, 10.2465



49.5285, 37.4496, 5.8869



68.9817, 79.4957, 16.7099



17.1063, 17.6967, 17.3118



23.3682, 16.6220, 1.9767



2.1547, 1.6626, 0.2073



# Inverse Universe

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



32.6037, 35.1096, 93.0535



30.3447, 30.9884, 98.9898



21.6319, 13.1660, 89.3962



16.3437, 17.4518, 21.0497



13.7587, 13.3111, 48.3822



1.3117, 1.3748, 4.2865



# Previews

## White Background



This preview shows how the XYZ color 49.5908, 40.7136, 10.2458 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 49.5908, 40.7136, 10.2458 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 49.5908, 40.7136, 10.2458**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.5908, 40.7136, 10.2458.



This preview shows how white text looks on a background with the XYZ color 49.5908, 40.7136,



# 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

49.5908, 40.7136, 10.2458

### Protanopia

37.4081, 41.0493, 12.0826

### Deuteranopia

41.6444, 40.8168, 9.9585



## Tritanopia

54.3570, 40.6934, 32.5934

# Trichromacy



## Original Color

49.5908, 40.7136, 10.2458

## Protanomaly

41.0353, 40.4729, 11.2795

## Deuteranomaly

44.2905, 40.6305, 10.0655

## Tritanomaly

52.0133, 40.3645, 21.8794

# Monochromacy



## Original Color

49.5908, 40.7136, 10.2458

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

39.1924, 38.1437, 26.4159

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.5908, 40.7136, 10.2458 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(247, 146, 65)` looks like.

```
.text, #text, p{  
    color:rgb(247, 146, 65)  
}
```

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(247, 146, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 146, 65) }
```

## Border

The CSS property to change the border of an element to XYZ 49.5908, 40.7136, 10.2458 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(247, 146, 65) }
```



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

```
.border{ border-color:rgb(247, 146, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 146, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 146, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 146, 65);  
box-shadow:4px 4px 4px 4px rgb(247, 146,  
65) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.5908, 40.7136, 10.2458 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 146, 65) }
```

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

```
.background{ background-color: rgb(247,  
146, 65) }
```

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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