

# Converting Colors

XYZ(49.4561, 40.3319, 6.8004)

Have a look what the booklet for  
XYZ(49.4561, 40.3319, 6.8004)  
contains.

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# **Color**

**XYZ(49.3436, 40.2076,  
6.7503)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F99023
RGB	249, 144, 35
RGB Percent	98%, 56%, 14%
CMY	0.0235, 0.4353, 0.8627
CMYK	0.00, 0.42, 0.86, 0.02
HSL	31°, 95%, 56%
HSV	31°, 86%, 98%
XYZ	49.3436, 40.2076, 6.7503
YIQ	162.9690, 97.5690, -11.6390

# Conversions

## Conversions Part 2

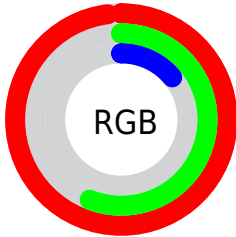
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	241, 249, 35
Decimal	16355363
CIE Lab	69.62, 32.81, 68.46
CIE LCh	70, 75.918, 64.391
Yxy	40.2076, 0.5124, 0.4175
Android (android.graphics.Color)	4294545443 (0xFFFF99023)
YUV	162.9690, -63.0887, 75.4492
Hunter-Lab	63.4095, 27.9375, 38.0749

# Details

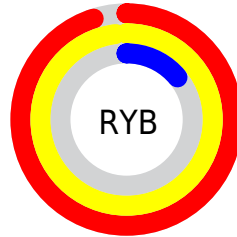
The XYZ color **49.3436, 40.2076, 6.7503** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **27.1697, 25.9522, 93.1992**, and the grayscale version is **35.0557, 36.8813, 40.1638**.

A 20% lighter version of the original color is **63.3659, 62.4209, 18.8339**, and **24.1641, 18.2678, 2.2525** is the 20% darker color. If you saturate the color by 10%, you get **47.3449, 36.6076, 4.8608**, and if you desaturate by 10%, it is **51.8059, 44.3170, 10.0854**.

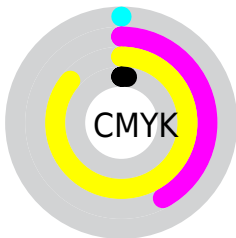
# Distribution



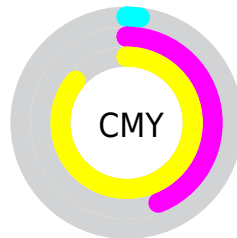
- Red (98%)
- Green (56%)
- Blue (14%)



- Red (95%)
- Yellow (98%)
- Blue (14%)



- Cyan (0%)
- Magenta (42%)
- Yellow (86%)
- Black (2%)




- Cyan (2%)
- Magenta (44%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3436, 40.2076, 6.7503 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 49.3436, 40.2076, 6.7503 by changing the saturation by 10% instead.





 49.3436, 40.2076,  
6.7503

 49.3436, 40.2076,  
6.7503


374.5880,  
346.9978, 175.1239

 35.1078, 27.7004,  
3.2304


 88.3992, 75.4795,  
19.9733

 23.9128, 18.1000,  
1.2134


 113.9497, 99.0131,  
30.5135


 15.3933, 11.0218,  
0.0000


 144.0025,  
126.9909, 44.2309

 9.1840, 6.0815,  
0.0000

 178.9229,  
159.7974, 61.5439

 4.9195, 2.8947,  
0.0000

 219.0763,  
197.8170, 82.8712

 2.2344, 1.0770,  
0.0000

 264.8281,

 0.7608, 0.0000,

241.4339, 108.6313

0.0000

316.5435,  
291.0327, 139.2427

■ 0.0000, 0.0000,  
0.0000

■ 49.3436, 40.2076,  
6.7503

■ 49.3436, 40.2076,  
6.7503

■ 47.3449, 36.6076,  
4.8608

■ 51.8059, 44.3170,  
10.0854


■ 46.6345, 35.2752,  
4.3509

■ 54.7827, 48.9606,  
15.1167


■ 58.3194, 54.1675,  
22.0494

■ 62.4542, 59.9620,  
31.0582

■ 67.2216, 66.3664,  
42.2980

 72.6530, 73.4015,  
55.9088

 78.7775, 81.0871,  
72.0189

 85.6223, 89.4418,  
90.7473

 92.5449, 98.2161,  
108.6877

# Harmonies

## Analogous

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



61.1695, 40.2076, 15.6367



49.3436, 40.2076, 6.7503



36.4387, 40.2076, 5.0633

# Triad

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



49.3436, 40.2076, 6.7503



19.1939, 40.2076, 49.1568



53.1457, 40.2076, 126.5202

# Complementary

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



49.3436, 40.2076, 6.7503



27.1697, 25.9522, 93.1992

# 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.



40.0504, 40.2076, 151.5645



49.3436, 40.2076, 6.7503



21.8706, 40.2076, 94.0875

# Square

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



49.3436, 40.2076, 6.7503



20.6494, 40.2076, 20.5929



28.9015, 40.2076, 137.3050



63.6737, 40.2076, 79.9454



# Rectangle

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



49.3436, 40.2076, 6.7503



29.2804, 40.2076, 6.5773



28.9015, 40.2076, 137.3050



48.8066, 40.2076, 138.6096

# Sweetspot

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



49.3445, 40.2097, 6.7510



76.6394, 77.4143, 58.8767



44.5505, 23.2950, 27.7404



15.9614, 16.0026, 11.4746



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.



49.3445, 40.2097, 6.7510



49.2079, 37.1959, 4.5860



73.2456, 88.0119, 14.7180



17.9756, 18.6870, 18.1219



25.1056, 19.1678, 2.3765



2.4313, 1.9875, 0.2555



# Inverse Universe

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



27.1697, 25.9522, 93.1992



25.3976, 21.9153, 97.4992



18.3933, 8.3993, 90.2738



16.9862, 18.0492, 21.9739



13.0305, 11.4166, 49.4904



1.3126, 1.2690, 4.6189



# Previews

## White Background



This preview shows how the XYZ color 49.3436, 40.2076, 6.7503 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 49.3436, 40.2076, 6.7503 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 49.3436, 40.2076, 6.7503**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.3436, 40.2076, 6.7503.



This preview shows how white text looks on a background with the XYZ color 49.3436, 40.2076,



# 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

49.3436, 40.2076, 6.7503

### Protanopia

36.7191, 40.4995, 8.0724

### Deuteranopia

41.1095, 40.3537, 6.4865



## Tritanopia

54.4322, 40.1346, 31.2634

# Trichromacy



## Original Color

49.3436, 40.2076, 6.7503

## Protanomaly

40.5516, 39.7824, 7.4609

## Deuteranomaly

43.6095, 39.8574, 6.4934

## Tritanomaly

51.7321, 39.8719, 18.0662

# Monochromacy



## Original Color

49.3436, 40.2076, 6.7503

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

37.2890, 36.5072, 21.6043

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3436, 40.2076, 6.7503 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(249, 144, 35)` looks like.

```
.text, #text, p{  
    color:rgb(249, 144, 35)  
}
```

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(249, 144, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 144, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3436, 40.2076, 6.7503 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(249, 144, 35) }
```



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

```
.border{ border-color:rgb(249, 144, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 144, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 144, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 144, 35);  
box-shadow:4px 4px 4px 4px rgb(249, 144,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3436, 40.2076, 6.7503 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 144, 35) }
```

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

```
.background{ background-color: rgb(249,  
144, 35) }
```

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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