

# Converting Colors

XYZ(45.1293, 35.7710, 4.5279)

Have a look what the booklet for  
XYZ(45.1293, 35.7710, 4.5279)  
contains.

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# Color

**XYZ(45.0055, 35.6523,  
4.5095)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F28500
RGB	242, 133, 0
RGB Percent	95%, 52%, 0%
CMY	0.0510, 0.4784, 1.0000
CMYK	0.00, 0.45, 1.00, 0.05
HSL	33°, 100%, 47%
HSV	33°, 100%, 95%
XYZ	45.0055, 35.6523, 4.5095
YIQ	150.4290, 107.6570, -18.2550

# Conversions

## Conversions Part 2

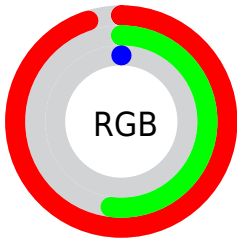
Format	Color
<a href="#">RYB</a>	198, 242, 0
Decimal	15893760
CIELab	66.25, 35.17, 72.62
CIELCh	66, 80.689, 64.157
Yxy	35.6523, 0.5284, 0.4186
Android (android.graphics.Color)	4294083840 (0xFFFF28500)
YUV	150.4290, -74.1615, 80.3078
Hunter-Lab	59.7095, 30.0510, 37.3189

# Details

The XYZ color **45.0055, 35.6523, 4.5095** is a dark color, and the websafe version is hex **FF9900**, and the color name is **tangerine**. The color can be described as dark saturated orange. A complement of this color would be **21.4958, 17.3483, 86.2194**, and the grayscale version is **29.4472, 30.9807, 33.7380**.

A 20% lighter version of the original color is **60.2129, 57.2817, 14.1862**, and **21.6077, 15.6183, 1.8758** is the 20% darker color. If you saturate the color by 10%, you get **45.0057, 35.6531, 4.5097**, and if you desaturate by 10%, it is **46.7439, 38.8623, 5.9131**.

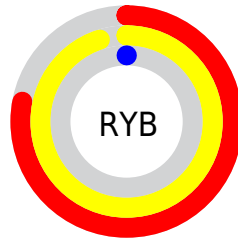
# Distribution



Red (95%)

Green (52%)

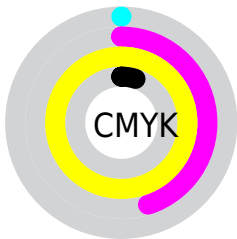
Blue (0%)



Red (78%)

Yellow (95%)

Blue (0%)

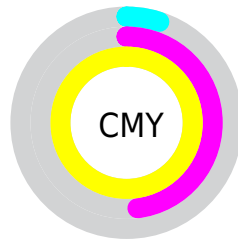


Cyan (0%)

Magenta (45%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (48%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0055, 35.6523, 4.5095 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 45.0055, 35.6523, 4.5095 by changing the saturation by 10% instead.





 45.0055, 35.6523,  
4.5095


 45.0055, 35.6523,  
4.5095


357.5792,  
327.4383, 153.7305


 31.6631, 24.1658,  
1.9088


 81.9657, 68.4951,  
15.1687

 21.2586, 15.4566,  
0.4983


 106.3141, 90.6201,  
24.0644


 13.4267, 9.1405,  
0.0000


 135.0619,  
117.0601, 35.8954

 7.8020, 4.8329,  
0.0000

 168.5745,  
148.1994, 51.0804

 4.0193, 2.1496,  
0.0000

 207.2171,  
184.4225, 70.0378


 1.7130, 0.6923,  
0.0000

 251.3552,


 0.4644, 0.0000,


226.1138, 93.1863


0.0000


 301.3541,  
273.6575, 120.9443


 0.0000, 0.0000,  
0.0000


 45.0055, 35.6523,  
4.5095


 45.0055, 35.6523,  
4.5095


 45.0057, 35.6531,  
4.5097

 46.7439, 38.8623,  
5.9131

 48.8489, 42.4723,  
8.4641

 51.3902, 46.5187,  
12.5060

 54.4108, 51.0254,  
18.2437

 57.9472, 56.0133,  
25.8495

■ 62.0314, 61.5015,  
35.4741

■ 66.6928, 67.5076,  
47.2527

■ 71.9582, 74.0482,  
61.3089

■ 77.8525, 81.1390,  
77.7565

# Harmonies

## Analogous

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



56.8640, 35.6523, 12.2355



45.0055, 35.6523, 4.5095



32.2369, 35.6523, 3.1411

# Triad

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



45.0055, 35.6523, 4.5095



15.6525, 35.6523, 43.8230



48.6072, 35.6523, 123.5181

# Complementary

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



45.0055, 35.6523, 4.5095



21.4958, 17.3483, 86.2194

# 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.



35.5913, 35.6523, 149.5023



45.0055, 35.6523, 4.5095



18.1203, 35.6523, 89.1722

# Square

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



45.0055, 35.6523, 4.5095



17.0377, 35.6523, 16.5069



24.7685, 35.6523, 134.2025



59.2652, 35.6523, 75.4592



# Rectangle

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



45.0055, 35.6523, 4.5095



25.2727, 35.6523, 4.3161



24.7685, 35.6523, 134.2025



44.2639, 35.6523, 136.0959

# Sweetspot

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



45.0063, 35.6542, 4.5101



75.0626, 75.9672, 53.0901



39.5949, 20.0682, 17.3911



15.5745, 15.6329, 10.0997



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.



45.0063, 35.6542, 4.5101



50.6398, 40.0596, 5.0633



65.6616, 80.9849, 12.1712



16.4930, 17.1990, 16.6002



24.3161, 19.4303, 2.4688



2.1221, 1.8149, 0.2385



# Inverse Universe

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



21.4958, 17.3483, 86.2194



24.1638, 19.4476, 97.0879



16.1281, 6.4631, 84.4012



15.4835, 16.4011, 20.0713



11.6797, 9.5836, 46.3621



1.0696, 0.9932, 3.8896



# Previews

## White Background



This preview shows how the XYZ color 45.0055, 35.6523, 4.5095 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 45.0055, 35.6523, 4.5095 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 45.0055, 35.6523, 4.5095**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0055, 35.6523, 4.5095.



This preview shows how white text looks on a background with the XYZ color 45.0055, 35.6523,



# 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

45.0055, 35.6523, 4.5095

### Protanopia

32.3380, 35.8363, 5.8745

### Deuteranopia

36.2931, 35.6198, 4.9625



## Tritanopia

49.3785, 35.6741, 26.1130

# Trichromacy



## Original Color

45.0055, 35.6523, 4.5095

## Protanomaly

36.0411, 34.9996, 5.2368

## Deuteranomaly

39.1923, 35.4632, 4.7794

## Tritanomaly

46.8458, 35.2313, 12.7188

# Monochromacy



## Original Color

45.0055, 35.6523, 4.5095

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

31.5673, 30.8400, 15.1154

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0055, 35.6523, 4.5095 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(242, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 133, 0)  
}
```

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(242, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 133, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0055, 35.6523, 4.5095 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(242, 133, 0) }
```



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

```
.border{ border-color:rgb(242, 133, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 133, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 133,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0055, 35.6523, 4.5095 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 133, 0) }
```

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

```
.background{ background-color: rgb(242,  
133, 0) }
```

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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