

# Converting Colors

XYZ(40.7149, 28.3108, 3.7987)

Have a look what the booklet for  
XYZ(40.7149, 28.3108, 3.7987)  
contains.

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# Color

**XYZ(40.6404, 28.2888,  
3.8085)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EF6810
RGB	239, 104, 16
RGB Percent	94%, 41%, 6%
CMY	0.0627, 0.5921, 0.9372
CMYK	0.00, 0.56, 0.93, 0.06
HSL	24°, 87%, 50%
HSV	24°, 93%, 94%
XYZ	40.6404, 28.2888, 3.8085
YIQ	134.3330, 108.7080, 1.2520

# Conversions

## Conversions Part 2

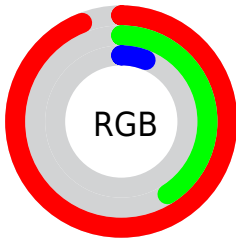
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	239, 161, 16
Decimal	15689744
CIE <sub>Lab</sub>	60.15, 48.46, 65.88
CIE <sub>LCh</sub>	60, 81.784, 53.666
Yxy	28.2888, 0.5587, 0.3889
Android (android.graphics.Color)	4293879824 (0xFFEF6810)
YUV	134.3330, -58.3382, 91.7930
Hunter-Lab	53.1872, 43.3144, 32.9856

# Details

The XYZ color **40.6404, 28.2888, 3.8085** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **26.8593, 28.4735, 85.7408**, and the grayscale version is **22.9642, 24.1601, 26.3103**.

A 20% lighter version of the original color is **54.7029, 46.2081, 12.5145**, and **18.8198, 11.3952, 1.2076** is the 20% darker color. If you saturate the color by 10%, you get **39.6275, 26.4131, 3.0096**, and if you desaturate by 10%, it is **42.5123, 31.5725, 5.8524**.

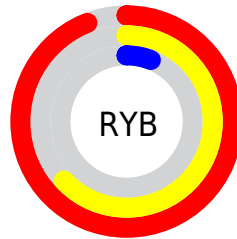
# Distribution



Red (94%)

Green (41%)

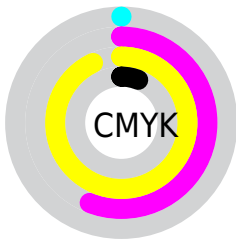
Blue (6%)



Red (94%)

Yellow (63%)

Blue (6%)

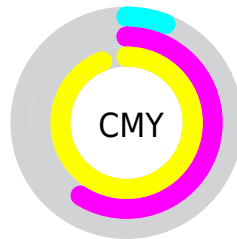


Cyan (0%)

Magenta (56%)

Yellow (93%)

Black (6%)



Cyan (6%)

Magenta (59%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6404, 28.2888, 3.8085 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 40.6404, 28.2888, 3.8085 by changing the saturation by 10% instead.





 40.6404, 28.2888,  
3.8085


 40.6404, 28.2888,  
3.8085


339.9037,  
293.8443, 146.0725


 28.2246, 18.5435,  
1.5209


 75.4159, 56.9452,  
13.5656


 18.6364, 11.3409,  
0.2334


 98.5063, 76.6251,  
21.8722

 11.5103, 6.2966,  
0.0000


 125.8856,  
100.3852, 33.0223

 6.4810, 3.0263,  
0.0000

 157.9193,  
128.6101, 47.4342

 3.1831, 1.1455,  
0.0000

 194.9725,  
161.6840, 65.5267


 1.2513, 0.0165,  
0.0000

 237.4108,


 0.1463, 0.0000,


199.9915, 87.7182


0.0000


 285.5994,  
243.9168, 114.4273


 0.0000, 0.0000,  
0.0000


 40.6404, 28.2888,  
3.8085


 40.6404, 28.2888,  
3.8085

 39.6275, 26.4131,  
3.0096

 42.5123, 31.5725,  
5.8524

 44.8960, 35.4784,  
9.3031

 47.8434, 40.0462,  
14.3765

 51.3981, 45.3101,  
21.2507

 55.5987, 51.3014,  
30.0799

60.4800, 58.0492,  
41.0019

66.0744, 65.5806,  
54.1415

72.4117, 73.9216,  
69.6139

79.5200, 83.0966,  
87.5261

# Harmonies

## Analogous

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



49.8166, 28.2888, 12.9921



40.6404, 28.2888, 3.8085



29.1665, 28.2888, 1.7019

# Triad

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



40.6404, 28.2888, 3.8085



11.4503, 28.2888, 24.8779



35.7892, 28.2888, 119.3207

# Complementary

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



40.6404, 28.2888, 3.8085



26.8593, 28.4735, 85.7408

# 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.



24.7308, 28.2888, 130.7407



40.6404, 28.2888, 3.8085



12.3608, 28.2888, 60.1661

# Square

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



40.6404, 28.2888, 3.8085



13.7291, 28.2888, 7.7359



16.6509, 28.2888, 104.3329



46.5461, 28.2888, 79.0415



# Rectangle

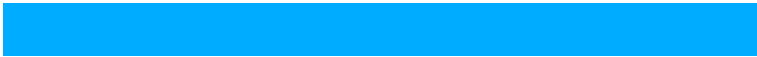
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.6404, 28.2888, 3.8085



22.4131, 28.2888, 1.8942



16.6509, 28.2888, 104.3329



31.9213, 28.2888, 127.4182

# Sweetspot

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



40.6410, 28.2904, 3.8090



73.3379, 71.6800, 55.0982



41.5742, 21.0383, 32.2313



15.1119, 14.5505, 10.4304



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.



40.6410, 28.2904, 3.8090



45.8584, 30.4967, 3.4695



59.4797, 65.9678, 10.0885



16.2846, 16.7822, 16.5307



22.0185, 14.8351, 1.7030



1.9261, 1.4228, 0.1731

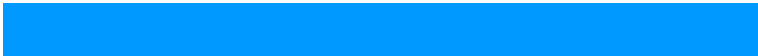


# Inverse Universe

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



26.8593, 28.4735, 85.7408



29.6659, 30.4517, 98.9220



16.6223, 7.9995, 82.3285



15.6934, 16.8210, 20.1413



14.3098, 14.8439, 47.2388



1.2871, 1.4283, 3.9621



# Previews

## White Background



This preview shows how the XYZ color 40.6404, 28.2888, 3.8085 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 40.6404, 28.2888, 3.8085 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.6404, 28.2888, 3.8085**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6404, 28.2888, 3.8085.



This preview shows how white text looks on a background with the XYZ color 40.6404, 28.2888,



# 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

40.6404, 28.2888, 3.8085

### Protanopia

25.7983, 28.5341, 5.2465

### Deuteranopia

28.8556, 28.3673, 3.9546



## Tritanopia

43.3408, 28.4059, 16.0305

# Trichromacy



**Original Color**

40.6404, 28.2888, 3.8085

**Protanomaly**

29.7670, 27.3749, 4.5791

**Deuteranomaly**

32.3956, 27.7722, 3.8254

**Tritanomaly**

41.9701, 28.2700, 9.2058

# Monochromacy



**Original Color**

40.6404, 28.2888, 3.8085

**Achromatopsia**

22.6597, 23.8398, 25.9615

**Achromatomaly**

25.9845, 23.6919, 13.1010

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6404, 28.2888, 3.8085 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(239, 104, 16)` looks like.

```
.text, #text, p{  
    color:rgb(239, 104, 16)  
}
```

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(239, 104, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 104, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6404, 28.2888, 3.8085 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(239, 104, 16) }
```



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

```
.border{ border-color:rgb(239, 104, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 104, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 104, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 104, 16);  
box-shadow:4px 4px 4px 4px rgb(239, 104,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6404, 28.2888, 3.8085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 104, 16) }
```

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

```
.background{ background-color: rgb(239,  
104, 16) }
```

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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