

# Converting Colors

XYZ(35.2829, 22.3206, 2.4524)

Have a look what the booklet for  
XYZ(35.2829, 22.3206, 2.4524)  
contains.

<b>XYZ(35.4291, 22.4150, 2.4592)</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(35.4291, 22.4150,  
2.4592)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E64F00
RGB	230, 79, 0
RGB Percent	90%, 31%, 0%
CMY	0.0980, 0.6902, 1.0000
CMYK	0.00, 0.66, 1.00, 0.10
HSL	21°, 100%, 45%
HSV	21°, 100%, 90%
XYZ	35.4291, 22.4150, 2.4592
YIQ	115.1430, 115.3550, 7.4430

# Conversions

## Conversions Part 2

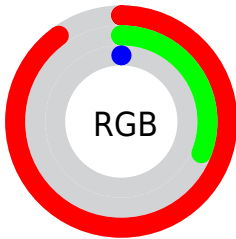
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	230, 120, 0
Decimal	15093504
CIE <sub>Lab</sub>	54.46, 56.11, 64.96
CIE <sub>LCh</sub>	54, 85.838, 49.177
Yxy	22.4150, 0.5875, 0.3717
Android (android.graphics.Color)	4293283584 (0xFFE64F00)
YUV	115.1430, -56.7655, 100.7296
Hunter-Lab	47.3445, 50.7233, 30.0615

# Details

The XYZ color **35.4291, 22.4150, 2.4592** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed red. A complement of this color would be **25.3482, 27.8439, 78.9006**, and the grayscale version is **16.4829, 17.3413, 18.8847**.

A 20% lighter version of the original color is **50.6623, 38.6691, 9.4963**, and **15.6367, 8.2387, 0.7661** is the 20% darker color. If you saturate the color by 10%, you get **35.4294, 22.4160, 2.4594**, and if you desaturate by 10%, it is **36.8000, 24.9096, 3.6793**.

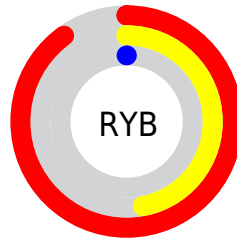
# Distribution



Red (90%)

Green (31%)

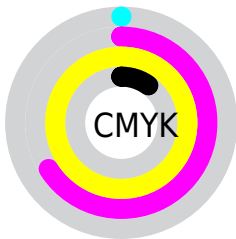
Blue (0%)



Red (90%)

Yellow (47%)

Blue (0%)

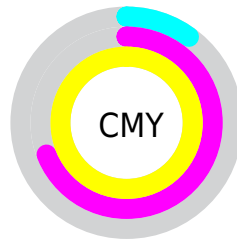


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (69%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.4291, 22.4150, 2.4592 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 35.4291, 22.4150, 2.4592 by changing the saturation by 10% instead.





 35.4291, 22.4150,  
2.4592


 35.4291, 22.4150,  
2.4592


317.9333,  
264.7059, 129.1429


 24.1617, 14.1622,  
0.8184


 67.4796, 47.4310,  
10.2620

 15.5790, 8.2335,  
0.0000


 88.9934, 64.9628,  
17.2683

 9.3157, 4.2447,  
0.0000


 114.6534, 86.3565,  
26.9026

 5.0064, 1.8114,  
0.0000

 144.8249,  
111.9964, 39.5834

 2.2858, 0.4943,  
0.0000

 179.8733,  
142.2669, 55.7293


 0.7874, 0.0000,  
0.0000


 220.1639,


 0.0000, 0.0000,


177.5524, 75.7589


0.0000


 266.0621,  
218.2373, 100.0906


 35.4291, 22.4150,  
2.4592


 35.4291, 22.4150,  
2.4592


 35.4294, 22.4160,  
2.4594

 36.8000, 24.9096,  
3.6793

 38.6170, 28.0020,  
5.9547

 40.9534, 31.7451,  
9.5997

 43.8564, 36.1789,  
14.7977

 47.3668, 41.3393,  
21.7034

■ 51.5213, 47.2595,  
30.4525

■ 56.3533, 53.9704,  
41.1669

■ 61.8936, 61.5012,  
53.9578

■ 68.1713, 69.8792,  
68.9284

# Harmonies

## Analogous

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



43.3250, 22.4150, 11.0516



35.4291, 22.4150, 2.4592



24.8797, 22.4150, 0.6707

# Triad

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



35.4291, 22.4150, 2.4592



8.0321, 22.4150, 15.9241



27.8063, 22.4150, 113.1271

# Complementary

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



35.4291, 22.4150, 2.4592



25.3482, 27.8439, 78.9006

# 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.



18.0898, 22.4150, 118.6369



35.4291, 22.4150, 2.4592



8.3928, 22.4150, 45.6488

# Square

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



35.4291, 22.4150, 2.4592



10.3506, 22.4150, 3.8031



11.5437, 22.4150, 88.2146



38.1057, 22.4150, 76.2492



# Rectangle

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



35.4291, 22.4150, 2.4592



18.5518, 22.4150, 0.6408



11.5437, 22.4150, 88.2146



24.3175, 22.4150, 119.3787

# Sweetspot

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



35.4296, 22.4163, 2.4595



71.1046, 68.0514, 51.7708



38.4103, 19.1339, 31.9506



14.6436, 13.7711, 9.7894



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.



35.4296, 22.4163, 2.4595



44.6967, 28.1733, 3.0822



51.4093, 54.3758, 7.7861



14.7797, 15.1734, 15.0542



20.1608, 12.8957, 1.4265



1.5738, 1.1210, 0.1334

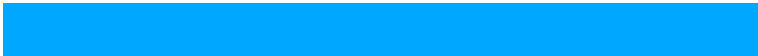


# Inverse Universe

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



25.3482, 27.8439, 78.9006



31.9428, 35.0056, 99.6809



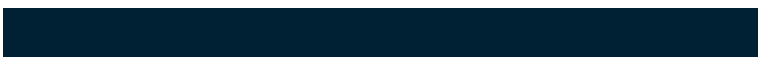
14.9868, 7.1210, 75.4468



14.3688, 15.4590, 18.3709



14.4688, 15.9997, 44.7088



1.1548, 1.3536, 3.3324



# Previews

## White Background



This preview shows how the XYZ color 35.4291, 22.4150, 2.4592 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 35.4291, 22.4150, 2.4592 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 35.4291, 22.4150, 2.4592**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.4291, 22.4150, 2.4592.



This preview shows how white text looks on a background with the XYZ color 35.4291, 22.4150,



# 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

35.4291, 22.4150, 2.4592

### Protanopia

20.3138, 22.5016, 4.1367

### Deuteranopia

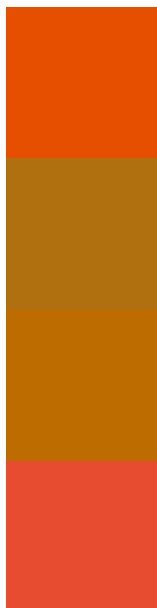
22.7247, 22.4146, 3.1287



## Tritanopia

36.7433, 22.4223, 9.4125

# Trichromacy



## Original Color

35.4291, 22.4150, 2.4592

## Protanomaly

24.0119, 20.9699, 3.2340

## Deuteranomaly

26.3488, 21.5439, 2.7697

## Tritanomaly

36.0938, 22.3796, 5.3231

# Monochromacy



## Original Color

35.4291, 22.4150, 2.4592

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

19.8586, 17.1519, 8.5673

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.4291, 22.4150, 2.4592 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(230, 79, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 79, 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(230, 79, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 79, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 35.4291, 22.4150, 2.4592 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(230, 79, 0) }
```



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

```
.border{ border-color:rgb(230, 79, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 79, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 79, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 79, 0);  
box-shadow:4px 4px 4px 4px rgb(230, 79, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 35.4291, 22.4150, 2.4592 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 79, 0) }
```

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

```
.background{ background-color: rgb(230, 79,  
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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