

# Converting Colors

XYZ(35.5749, 18.3818, 1.7516)

Have a look what the booklet for  
XYZ(35.5749, 18.3818, 1.7516)  
contains.

<b>XYZ(35.6456, 18.4224, 1.7633)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(35.6456, 18.4224,  
1.7633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EF0303
RGB	239, 3, 3
RGB Percent	94%, 1%, 1%
CMY	0.0627, 0.9880, 0.9882
CMYK	0.00, 0.99, 0.99, 0.06
HSL	0°, 98%, 47%
HSV	0°, 99%, 94%
XYZ	35.6456, 18.4224, 1.7633
YIQ	73.5640, 140.6560, 50.0320

# Conversions

## Conversions Part 2

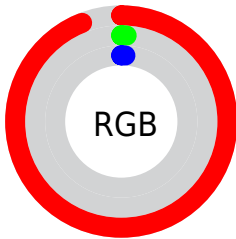
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">239, 3, 3</a>
Decimal	<a href="#">15663875</a>
CIELab	<a href="#">50.00, 76.07, 63.20</a>
CIELCh	<a href="#">50, 98.899, 39.720</a>
Yxy	<a href="#">18.4224, 0.6385, 0.3300</a>
Android (android.graphics.Color)	<a href="#">4293853955 (0xFFEF0303)</a>
YUV	<a href="#">73.5640, -34.7881, 145.0874</a>
Hunter-Lab	<a href="#">42.9213, 73.1296, 27.6092</a>

# Details

The XYZ color **35.6456, 18.4224, 1.7633** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **46.4664, 67.9492, 92.3272**, and the grayscale version is **6.4797, 6.8172, 7.4239**.

A 20% lighter version of the original color is **46.0321, 29.5812, 7.4212**, and **17.0133, 8.7707, 0.7962** is the 20% darker color. If you saturate the color by 10%, you get **35.5970, 18.3519, 1.6661**, and if you desaturate by 10%, it is **36.1839, 19.2110, 2.8319**.

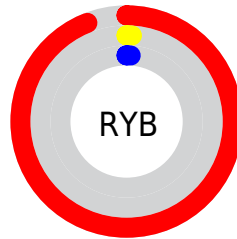
# Distribution



Red (94%)

Green (1%)

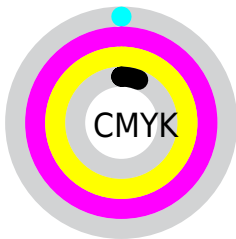
Blue (1%)



Red (94%)

Yellow (1%)

Blue (1%)

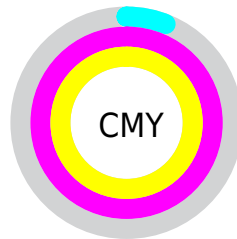


Cyan (0%)

Magenta (99%)

Yellow (99%)

Black (6%)



Cyan (6%)

Magenta (99%)


Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.6456, 18.4224, 1.7633 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 35.6456, 18.4224, 1.7633 by changing the saturation by 10% instead.





 35.6456, 18.4224,  
1.7633


 35.6456, 18.4224,  
1.7633


 318.8672,  
243.2412, 118.5858

 24.3294, 11.2537,  
0.4036


 67.8122, 40.7558,  
8.3830


 15.7042, 6.2377,  
0.0000


 89.3933, 56.6892,  
14.5816

 9.4046, 2.9902,  
0.0000


 115.1268, 76.3130,  
23.2643

 5.0652, 1.1266,  
0.0000

 145.3780,  
100.0116, 34.8494

 2.3207, 0.0005,  
0.0000

 180.5123,  
128.1693, 49.7556


 0.8053, 0.0000,  
0.0000


 220.8950,


 0.0000, 0.0000,


161.1705, 68.4014


0.0000


 266.8915,  
199.3997, 91.2053


 35.6456, 18.4224,  
1.7633


 35.6456, 18.4224,  
1.7633


 35.5970, 18.3519,  
1.6661

 36.1839, 19.2110,  
2.8319

 37.3667, 20.9423,  
5.1818

 39.3547, 23.8517,  
9.1327

 42.2569, 28.0987,  
14.9010

 46.1651, 33.8178,  
22.6698

■ 51.1602, 41.1271,  
32.5998

■ 57.3149, 50.1331,  
44.8354

■ 64.6955, 60.9326,  
59.5085

■ 73.3632, 73.6155,  
76.7412

# Harmonies

## Analogous

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



42.3794, 18.4224, 12.4613



35.6456, 18.4224, 1.7633



24.6322, 18.4224, 0.0000

# Triad

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



35.6456, 18.4224, 1.7633



5.3595, 18.4224, 6.8444



20.7775, 18.4224, 128.3646

# Complementary

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



35.6456, 18.4224, 1.7633



46.4664, 67.9492, 92.3272

# 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.



11.9128, 18.4224, 119.9687



35.6456, 18.4224, 1.7633



4.9741, 18.4224, 30.2477

# Square

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



35.6456, 18.4224, 1.7633



8.2410, 18.4224, 0.7092



6.8852, 18.4224, 75.4746



31.9634, 18.4224, 93.1638



# Rectangle

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



35.6456, 18.4224, 1.7633



17.5992, 18.4224, 0.0000



6.8852, 18.4224, 75.4746



17.4210, 18.4224, 130.9678

# Sweetspot

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



35.6460, 18.4236, 1.7635



65.3501, 56.5423, 49.8526



51.2088, 24.6477, 83.7192



13.3229, 11.1298, 9.3491



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.



35.6460, 18.4236, 1.7635



41.2407, 21.2614, 1.9302



42.4502, 32.0320, 4.0316



15.7732, 15.7595, 16.3603



19.6720, 10.1420, 0.9208



1.6366, 0.8439, 0.0766



# Inverse Universe

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



46.4664, 67.9492, 92.3272



53.7896, 78.6992, 106.9632



22.4548, 19.9261, 84.3233



16.2471, 17.9283, 20.3258



25.6578, 37.5399, 51.0215



2.1346, 3.1232, 4.2445



# Previews

## White Background



This preview shows how the XYZ color 35.6456, 18.4224, 1.7633 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 35.6456, 18.4224, 1.7633 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 35.6456, 18.4224, 1.7633**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.6456, 18.4224, 1.7633.



This preview shows how white text looks on a background with the XYZ color 35.6456, 18.4224,



# 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

35.6456, 18.4224, 1.7633

### Protanopia

17.0764, 18.9246, 4.0491

### Deuteranopia

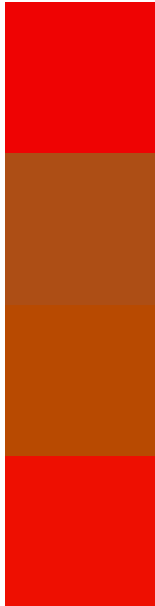
19.0796, 18.9369, 2.6496



## Tritanopia

35.2120, 18.5783, 1.7301

# Trichromacy



## Original Color

35.6456, 18.4224, 1.7633

## Protanomaly

20.0933, 14.3872, 2.4274

## Deuteranomaly

22.2214, 15.0901, 1.7702

## Tritanomaly

35.4362, 18.5210, 1.7359

# Monochromacy



## Original Color

35.6456, 18.4224, 1.7633

## Achromatopsia

6.5089, 6.8478, 7.4573

## Achromatomaly

11.4220, 7.3956, 3.6218

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.6456, 18.4224, 1.7633 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, 3, 3)` looks like.

```
.text, #text, p{  
    color:rgb(239, 3, 3)  
}
```

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, 3, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 3, 3) }
```

## Border

The CSS property to change the border of an element to XYZ 35.6456, 18.4224, 1.7633 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, 3, 3) }
```



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

```
.border{ border-color:rgb(239, 3, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 3, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 3, 3); -webkit-box-shadow:4px  
4px 4px 4px rgb(239, 3, 3); box-shadow:4px  
4px 4px 4px rgb(239, 3, 3) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.6456, 18.4224, 1.7633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 3, 3) }
```

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

```
.background{ background-color: rgb(239, 3,  
3) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**