

# Converting Colors

XYZ(35.4755, 18.2305, 4.2714)

Have a look what the booklet for  
XYZ(35.4755, 18.2305, 4.2714)  
contains.

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# Color

**XYZ(35.4182, 18.2018,  
4.2313)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED002E
RGB	237, 0, 46
RGB Percent	93%, 0%, 18%
CMY	0.0706, 0.9998, 0.8196
CMYK	0.00, 1.00, 0.81, 0.07
HSL	348°, 100%, 46%
HSV	348°, 100%, 93%
XYZ	35.4182, 18.2018, 4.2313
YIQ	76.1070, 126.4860, 64.5500

# Conversions

## Conversions Part 2

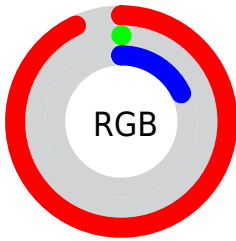
<b>Format</b>	<b>Color</b>
<b>RYB</b>	237, 0, 46
Decimal	15532078
CIELab	49.74, 76.44, 45.60
CIELCh	50, 89.011, 30.818
Yxy	18.2018, 0.6122, 0.3146
Android (android.graphics.Color)	4293722158 (0xFFED002E)
YUV	76.1070, -14.8428, 141.1032
Hunter-Lab	42.6636, 73.5249, 23.9842

# Details

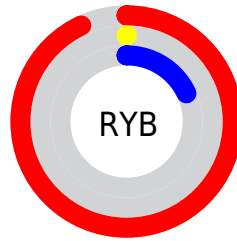
The XYZ color **35.4182, 18.2018, 4.2313** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **39.6953, 64.3325, 59.6499**, and the grayscale version is **6.9053, 7.2649, 7.9115**.

A 20% lighter version of the original color is **47.1301, 29.8790, 13.6391**, and **16.8001, 8.6601, 0.8148** is the 20% darker color. If you saturate the color by 10%, you get **35.4170, 18.2013, 4.2262**, and if you desaturate by 10%, it is **36.2037, 19.0307, 6.7821**.

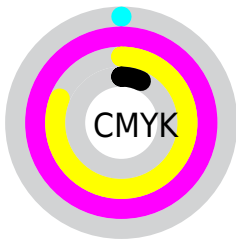
# Distribution



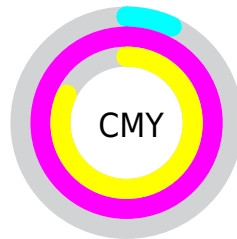
- Red (93%)
- Green (0%)
- Blue (18%)



- Red (93%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (7%)




- Cyan (7%)
- Magenta (100%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.4182, 18.2018, 4.2313 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 35.4182, 18.2018, 4.2313 by changing the saturation by 10% instead.





 35.4182, 18.2018,  
4.2313


 35.4182, 18.2018,  
4.2313


317.8862,  
242.0060, 150.7626


 24.1532, 11.0950,  
1.7531


 67.4629, 40.3809,  
14.5398


 15.5727, 6.1307,  
0.3967


 88.9733, 56.2219,  
23.2071

 9.3112, 2.9247,  
0.0000


 114.6296, 75.7432,  
34.7746

 5.0034, 1.0926,  
0.0000

 144.7970, 99.3290,  
49.6607

 2.2841, 0.0000,  
0.0000

 179.8411,  
127.3638, 68.2840

 0.7865, 0.0000,  
0.0000

 220.1271,

 0.0000, 0.0000,

160.2320, 91.0631

0.0000

266.0203,  
198.3179, 118.4164

■ 35.4182, 18.2018,  
4.2313

■ 35.4182, 18.2018,  
4.2313

■ 35.4170, 18.2013,  
4.2262

■ 36.2037, 19.0307,  
6.7821

■ 37.5683, 20.7178,  
10.4495

■ 39.6523, 23.5169,  
15.3642

■ 42.5433, 27.5792,  
21.6299

■ 46.3162, 33.0323,  
29.3390

■ 51.0369, 39.9880,  
38.5754

■ 56.7649, 48.5468,  
49.4166

■ 63.5548, 58.8002,  
61.9345

■ 71.4572, 70.8332,  
76.1968

# Harmonies

## Analogous

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



39.2581, 18.2018, 19.1595



35.4182, 18.2018, 4.2313



26.5292, 18.2018, 0.5625

# Triad

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



35.4182, 18.2018, 4.2313



6.6131, 18.2018, 4.6573



17.5341, 18.2018, 112.7600

# Complementary

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



35.4182, 18.2018, 4.2313



39.6953, 64.3325, 59.6499

# 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.



10.5064, 18.2018, 94.9212



35.4182, 18.2018, 4.2313



5.5828, 18.2018, 20.4927

# Square

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



35.4182, 18.2018, 4.2313



10.2199, 18.2018, 0.6513



6.7365, 18.2018, 54.6536



27.0689, 18.2018, 93.0398



# Rectangle

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



35.4182, 18.2018, 4.2313



20.0344, 18.2018, 0.0000



6.7365, 18.2018, 54.6536



14.8270, 18.2018, 110.8790

# Sweetspot

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



35.4186, 18.2030, 4.2315



66.9228, 57.1652, 58.1535



36.4249, 17.0129, 81.4842



13.6811, 11.2717, 11.2393



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.



35.4186, 18.2030, 4.2315



41.8037, 21.4855, 4.8986



37.1874, 22.5291, 2.3903



15.1848, 15.1018, 16.2586



19.3727, 9.9518, 2.4980



1.5542, 0.7946, 0.3697



# Inverse Universe

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



35.4186, 18.2030, 4.2315



41.8037, 21.4855, 4.8986



28.9080, 33.3573, 85.0351



15.1848, 15.1018, 16.2586



19.3727, 9.9518, 2.4980



1.5542, 0.7946, 0.3697



# Previews

## White Background



This preview shows how the XYZ color 35.4182, 18.2018, 4.2313 looks on a white 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



# 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 35.4182, 18.2018, 4.2313**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.4182, 18.2018, 4.2313.



This preview shows how white text looks on a background with the XYZ color 35.4182, 18.2018,



# 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

35.4182, 18.2018, 4.2313

### Protanopia

17.2462, 18.7261, 8.8364

### Deuteranopia

18.9776, 18.6931, 3.6448



## **Tritanopia**

34.8602, 18.3692, 1.7083

# Trichromacy



## Original Color

35.4182, 18.2018, 4.2313



## Protanomaly

20.0592, 14.0738, 6.3619



## Deuteranomaly

21.9627, 14.8257, 3.2175



## Tritanomaly

34.8372, 18.1612, 2.1996

# Monochromacy



## Original Color

35.4182, 18.2018, 4.2313



## Achromatopsia

6.8694, 7.2272, 7.8704



## Achromatomaly

12.0028, 7.6465, 5.8443

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.4182, 18.2018, 4.2313 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(237, 0, 46)` looks like.

```
.text, #text, p{  
    color:rgb(237, 0, 46)  
}
```

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(237, 0, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 0, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 35.4182, 18.2018, 4.2313 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(237, 0, 46) }
```



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

```
.border{ border-color:rgb(237, 0, 46) }
```

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

Here you see how a box with a 4 pixel rgb(237, 0, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 0, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 0, 46);  
box-shadow:4px 4px 4px 4px rgb(237, 0, 46)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 35.4182, 18.2018, 4.2313 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 0, 46) }
```

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

```
.background{ background-color: rgb(237, 0,  
46) }
```

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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