

# Converting Colors

XYZ(34.2921, 18.3827, 2.7777)

Have a look what the booklet for  
XYZ(34.2921, 18.3827, 2.7777)  
contains.

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# Color

**XYZ(34.2921, 18.3827,  
2.7777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E91F1B
RGB	233, 31, 27
RGB Percent	91%, 12%, 11%
CMY	0.0863, 0.8783, 0.8941
CMYK	0.00, 0.87, 0.88, 0.09
HSL	1°, 82%, 51%
HSV	1°, 88%, 91%
XYZ	34.2921, 18.3827, 2.7777
YIQ	90.9420, 121.6760, 41.5800

# Conversions

## Conversions Part 2

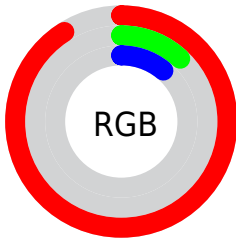
Format	Color
<code>RYB</code>	<code>233, 31, 27</code>
Decimal	<code>15277851</code>
CIELab	<code>49.96, 71.65, 54.84</code>
CIElCh	<code>50, 90.232, 37.431</code>
Yxy	<code>18.3827, 0.6184, 0.3315</code>
Android ( <code>android.graphics.Color</code> )	<code>4293467931</code> ( <code>0xFFE91F1B</code> )
YUV	<code>90.9420, -31.5234, 124.5849</code>
Hunter-Lab	<code>42.8751, 67.7356, 26.1714</code>

# Details

The XYZ color **34.2921, 18.3827, 2.7777** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **43.1726, 62.1416, 86.8094**, and the grayscale version is **9.9833, 10.5032, 11.4380**.

A 20% lighter version of the original color is **47.1637, 31.0754, 10.1690**, and **15.9363, 8.2155, 0.7458** is the 20% darker color. If you saturate the color by 10%, you get **33.7131, 17.5092, 1.7090**, and if you desaturate by 10%, it is **35.4993, 20.1825, 5.0763**.

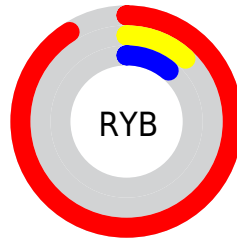
# Distribution



Red (91%)

Green (12%)

Blue (11%)



Red (91%)

Yellow (12%)

Blue (11%)

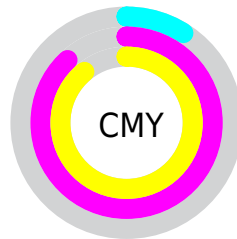


Cyan (0%)

Magenta (87%)

Yellow (88%)

Black (9%)



Cyan (9%)

Magenta (88%)


Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.2921, 18.3827, 2.7777 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 34.2921, 18.3827, 2.7777 by changing the saturation by 10% instead.





 34.2921, 18.3827,  
2.7777


 34.2921, 18.3827,  
2.7777


312.9956,  
243.0194, 133.4769


 23.2820, 11.2251,  
0.9823


 65.7289, 40.6884,  
11.0748


 14.9237, 6.2184,  
0.0000


 86.8864, 56.6052,  
18.4135

 8.8518, 2.9784,  
0.0000


 112.1571, 76.2106,  
28.4371

 4.7010, 1.1204,  
0.0000

 141.9063, 99.8889,  
41.5641

 2.1059, 0.0000,  
0.0000

 176.4994,  
128.0246, 58.2131


 0.6924, 0.0000,  
0.0000


 216.3017,


 0.0000, 0.0000,


161.0019, 78.8025

0.0000


 261.6787,  
199.2054, 103.7509

 34.2921, 18.3827,  
2.7777


 34.2921, 18.3827,  
2.7777


 33.7131, 17.5092,  
1.7090


 35.4993, 20.1825,  
5.0763

 33.6534, 17.4223,  
1.5891

 37.4605, 23.0803,  
8.8887

 40.2720, 27.2145,  
14.4152

 44.0155, 32.7027,  
21.8254

 48.7633, 39.6485,  
31.2684

■ 54.5804, 48.1457,  
42.8786

■ 61.5264, 58.2800,  
56.7788

■ 69.6567, 70.1311,  
73.0825

■ 79.0227, 83.7733,  
91.8958

# Harmonies

## Analogous

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



39.7052, 18.3827, 14.4645



34.2921, 18.3827, 2.7777



24.6666, 18.3827, 0.1965

# Triad

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



34.2921, 18.3827, 2.7777



6.1725, 18.3827, 6.7329



19.7132, 18.3827, 114.1817

# Complementary

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



34.2921, 18.3827, 2.7777



43.1726, 62.1416, 86.8094

# 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.



11.8334, 18.3827, 104.1206



34.2921, 18.3827, 2.7777



5.6228, 18.3827, 26.8313

# Square

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



34.2921, 18.3827, 2.7777



9.1858, 18.3827, 1.0132



7.3113, 18.3827, 65.1852



29.6598, 18.3827, 86.6954



# Rectangle

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



34.2921, 18.3827, 2.7777



18.2286, 18.3827, 0.0000



7.3113, 18.3827, 65.1852



16.7370, 18.3827, 115.3100

# Sweetspot

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



34.2925, 18.3839, 2.7780



67.9943, 60.5625, 54.6441



48.2180, 23.7962, 76.5955



13.9837, 12.1309, 10.5572



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.



34.2925, 18.3839, 2.7780



41.2941, 21.3681, 1.9480



42.2488, 34.2966, 5.4301



15.0891, 15.1011, 15.6382



19.1062, 9.9066, 0.9052



1.5086, 0.7946, 0.0739



# Inverse Universe

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



43.1726, 62.1416, 86.8094



52.2417, 75.6035, 106.4472



22.6934, 21.1832, 79.9830



15.4910, 17.0684, 19.4003



24.1695, 34.9860, 49.2221



1.9059, 2.7634, 3.8678



# Previews

## White Background



This preview shows how the XYZ color 34.2921, 18.3827, 2.7777 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 34.2921, 18.3827, 2.7777 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 34.2921, 18.3827, 2.7777**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.2921, 18.3827, 2.7777.



This preview shows how white text looks on a background with the XYZ color 34.2921, 18.3827,

2.7777.

# 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

34.2921, 18.3827, 2.7777

### Protanopia

16.8825, 18.6167, 5.2884

### Deuteranopia

18.7798, 18.6139, 2.6030



## Tritanopia

34.2921, 18.3827, 2.7777

# Trichromacy



## Original Color

34.2921, 18.3827, 2.7777

## Protanomaly

20.2181, 15.5609, 3.8574

## Deuteranomaly

22.2812, 16.1863, 2.2371

## Tritanomaly

34.2921, 18.3827, 2.7777

# Monochromacy



## Original Color

34.2921, 18.3827, 2.7777

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

14.4992, 10.5132, 6.7339

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.2921, 18.3827, 2.7777 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(233, 31, 27)` looks like.

```
.text, #text, p{  
    color:rgb(233, 31, 27)  
}
```

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(233, 31, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 31, 27) }
```

## Border

The CSS property to change the border of an element to XYZ 34.2921, 18.3827, 2.7777 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(233, 31, 27) }
```



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

```
.border{ border-color:rgb(233, 31, 27) }
```

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

Here you see how a box with a 4 pixel rgb(233, 31, 27) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 31, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 31, 27);  
box-shadow:4px 4px 4px 4px rgb(233, 31,  
27) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.2921, 18.3827, 2.7777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 31, 27) }
```

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

```
.background{ background-color: rgb(233, 31,  
27) }
```

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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