

# Converting Colors

XYZ(37.2025, 19.6516, 2.7089)

Have a look what the booklet for  
XYZ(37.2025, 19.6516, 2.7089)  
contains.

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# Color

**XYZ(37.1095, 19.5965,  
2.6908)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F21818
RGB	242, 24, 24
RGB Percent	95%, 9%, 9%
CMY	0.0510, 0.9057, 0.9059
CMYK	0.00, 0.90, 0.90, 0.05
HSL	0°, 89%, 52%
HSV	0°, 90%, 95%
XYZ	37.1095, 19.5965, 2.6908
YIQ	89.1820, 129.9280, 46.2160

# Conversions

## Conversions Part 2

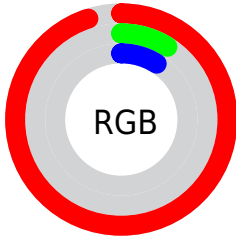
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 24, 24
Decimal	15865880
CIE <sub>Lab</sub>	51.38, 75.02, 57.91
CIE <sub>LCh</sub>	51, 94.773, 37.667
Yxy	19.5965, 0.6248, 0.3299
Android (android.graphics.Color)	4294055960 (0xFFFF21818)
YUV	89.1820, -32.1347, 134.0214
Hunter-Lab	44.2679, 72.1664, 27.3836

# Details

The XYZ color **37.1095, 19.5965, 2.6908** 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 **48.1457, 70.0892, 94.9948**, and the grayscale version is **9.5886, 10.0879, 10.9858**.

A 20% lighter version of the original color is **46.9998, 30.8554, 9.7819**, and **17.9045, 9.2301, 0.8379** is the 20% darker color. If you saturate the color by 10%, you get **36.6181, 18.8779, 1.7138**, and if you desaturate by 10%, it is **38.2218, 21.2250, 4.9005**.

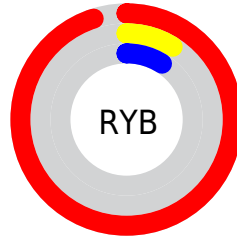
# Distribution



Red (95%)

Green (9%)

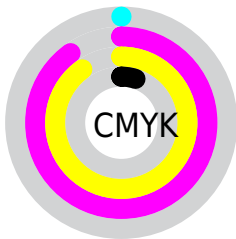
Blue (9%)



Red (95%)

Yellow (9%)

Blue (9%)

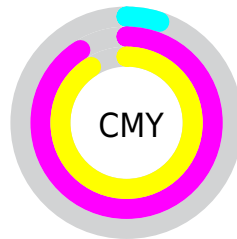


Cyan (0%)

Magenta (90%)

Yellow (90%)

Black (5%)



Cyan (5%)

Magenta (91%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1095, 19.5965, 2.6908 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 37.1095, 19.5965, 2.6908 by changing the saturation by 10% instead.





 37.1095, 19.5965,  
2.6908


 37.1095, 19.5965,  
2.6908


325.1317,  
249.7223, 132.3195


 25.4663, 12.1021,  
0.9388


 70.0539, 42.7396,  
10.8554

 16.5554, 6.8132,  
0.0000


 92.0859, 59.1572,  
18.1054


 10.0114, 3.3456,  
0.0000


 118.3115, 79.3178,  
28.0251

 5.4688, 1.3147,  
0.0000

 149.0961,  
103.6060, 41.0331

 2.5624, 0.1525,  
0.0000

 184.8050,  
132.4062, 57.5481


 0.9268, 0.0000,  
0.0000


 225.8037,


 0.0000, 0.0000,


166.1027, 77.9884


0.0000


 272.4575,  
205.0799, 102.7727

 37.1095, 19.5965,  
2.6908


 37.1095, 19.5965,  
2.6908


 36.6181, 18.8779,  
1.7138

 38.2218, 21.2250,  
4.9005

 40.1456, 24.0404,  
8.7241

 42.9968, 28.2127,  
14.3914

 46.8721, 33.8836,  
22.0950

 51.8564, 41.1771,  
32.0033

■ 58.0254, 50.2041,  
44.2672

■ 65.4485, 61.0660,  
59.0243

■ 74.1893, 73.8561,  
76.4016

■ 84.3076, 88.6617,  
96.5175

# Harmonies

## Analogous

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



43.1721, 19.5965, 15.1008



37.1095, 19.5965, 2.6908



26.4495, 19.5965, 0.0642

# Triad

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



37.1095, 19.5965, 2.6908



6.3381, 19.5965, 7.0093



21.1661, 19.5965, 126.2168

# Complementary

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



37.1095, 19.5965, 2.6908



48.1457, 70.0892, 94.9948

# 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.



12.5206, 19.5965, 115.2646



37.1095, 19.5965, 2.6908



5.7688, 19.5965, 29.0904

# Square

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



37.1095, 19.5965, 2.6908



9.5575, 19.5965, 0.9482



7.5993, 19.5965, 71.8013



32.1381, 19.5965, 95.1174



# Rectangle

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



37.1095, 19.5965, 2.6908



19.3781, 19.5965, 0.0000



7.5993, 19.5965, 71.8013



17.8934, 19.5965, 127.6073

# Sweetspot

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



37.1099, 19.5977, 2.6911



67.7116, 59.9970, 54.5498



52.9712, 25.9412, 86.2191



13.9196, 12.0026, 10.5358



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.



37.1099, 19.5977, 2.6911



41.2404, 21.2608, 1.9301



45.1701, 35.7182, 5.3778



15.7731, 15.7592, 16.3602



19.6718, 10.1416, 0.9207



1.6366, 0.8438, 0.0766



# Inverse Universe

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



48.1457, 70.0892, 94.9948



53.7977, 78.7154, 106.9659



24.7912, 23.3801, 87.2100



16.2472, 17.9286, 20.3258



25.6616, 37.5475, 51.0228



2.1349, 3.1237, 4.2446



# Previews

## White Background



This preview shows how the XYZ color 37.1095, 19.5965, 2.6908 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 37.1095, 19.5965, 2.6908 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 37.1095, 19.5965, 2.6908**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.1095, 19.5965, 2.6908.



This preview shows how white text looks on a background with the XYZ color 37.1095, 19.5965,

2.6908.

# 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

37.1095, 19.5965, 2.6908

### Protanopia

18.1625, 20.0080, 5.3873

### Deuteranopia

20.0716, 19.7905, 2.7621



## Tritanopia

37.0591, 19.6099, 2.3221

# Trichromacy



## Original Color

37.1095, 19.5965, 2.6908

## Protanomaly

21.7281, 16.3431, 3.7596

## Deuteranomaly

23.6361, 16.7710, 2.2498

## Tritanomaly

37.0831, 19.6195, 2.4485

# Monochromacy



## Original Color

37.1095, 19.5965, 2.6908

## Achromatopsia

9.4954, 9.9899, 10.8790

## Achromatomaly

14.5215, 10.1820, 6.2010

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1095, 19.5965, 2.6908 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(242, 24, 24)` looks like.

```
.text, #text, p{  
    color:rgb(242, 24, 24)  
}
```

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(242, 24, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 24, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1095, 19.5965, 2.6908 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(242, 24, 24) }
```



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

```
.border{ border-color:rgb(242, 24, 24) }
```

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

Here you see how a box with a 4 pixel rgb(242, 24, 24) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 24, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 24, 24);  
box-shadow:4px 4px 4px 4px rgb(242, 24,  
24) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1095, 19.5965, 2.6908 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 24, 24) }
```

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

```
.background{ background-color: rgb(242, 24,  
24) }
```

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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