

# Converting Colors

XYZ(37.8586, 19.8866, 7.5096)

Have a look what the booklet for  
XYZ(37.8586, 19.8866, 7.5096)  
contains.

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# Color

**XYZ(37.6764, 19.7837,  
7.4631)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F11845
RGB	241, 24, 69
RGB Percent	95%, 9%, 27%
CMY	0.0549, 0.9058, 0.7294
CMYK	0.00, 0.90, 0.71, 0.05
HSL	348°, 89%, 52%
HSV	348°, 90%, 95%
XYZ	37.6764, 19.7837, 7.4631
YIQ	94.0130, 114.8870, 59.9990

# Conversions

## Conversions Part 2

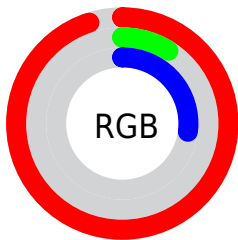
Format	Color
<a href="#">RYB</a>	<a href="#">241, 24, 69</a>
Decimal	<a href="#">15800389</a>
CIELab	<a href="#">51.59, 75.95, 34.69</a>
CIELCh	<a href="#">52, 83.496, 24.547</a>
Yxy	<a href="#">19.7837, 0.5803, 0.3047</a>
Android (android.graphics.Color)	<a href="#">4293990469</a> ( <a href="#">0xFFFF11845</a> )
YUV	<a href="#">94.0130, -12.3314, 128.9076</a>
Hunter-Lab	<a href="#">44.4789, 73.3627, 21.1870</a>

# Details

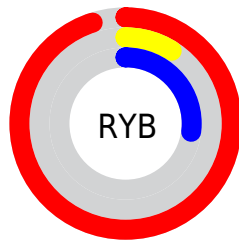
The XYZ color **37.6764, 19.7837, 7.4631** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **41.8000, 67.0917, 62.9905**, and the grayscale version is **10.6556, 11.2105, 12.2082**.

A 20% lighter version of the original color is **49.1046, 31.8517, 20.3895**, and **18.0909, 9.3047, 1.8198** is the 20% darker color. If you saturate the color by 10%, you get **36.8499, 18.9305, 4.7235**, and if you desaturate by 10%, it is **39.1036, 21.5318, 11.3505**.

# Distribution



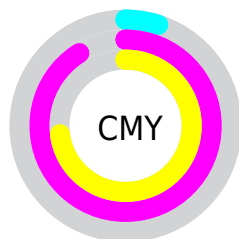
- Red (95%)
- Green (9%)
- Blue (27%)



- Red (95%)
- Yellow (9%)
- Blue (27%)



- Cyan (0%)
- Magenta (90%)
- Yellow (71%)
- Black (5%)




- Cyan (5%)
- Magenta (91%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6764, 19.7837, 7.4631 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 37.6764, 19.7837, 7.4631 by changing the saturation by 10% instead.





 37.6764, 19.7837,  
7.4631


 37.6764, 19.7837,  
7.4631


327.5347,  
250.7417, 181.2325


 25.9077, 12.2379,  
3.6706


 70.9190, 43.0542,  
21.4275

 16.8869, 6.9059,  
1.4464


 93.1236, 59.5478,  
32.4364

 10.2487, 3.4033,  
0.1775


 119.5375, 79.7927,  
46.6879

 5.6277, 1.3458,  
0.0000

 150.5261,  
104.1734, 64.6005

 2.6585, 0.1762,  
0.0000

 186.4548,  
133.0743, 86.5927

 0.9759, 0.0000,  
0.0000

 227.6889,

 0.0000, 0.0000,

166.8797, 113.0830

0.0000

274.5937,  
205.9740, 144.4901

■ 37.6764, 19.7837,  
7.4631

■ 37.6764, 19.7837,  
7.4631

■ 36.8499, 18.9305,  
4.7235

■ 39.1036, 21.5318,  
11.3505

■ 41.2727, 24.4315,  
16.5085

■ 44.2750, 28.6418,  
23.0405

■ 48.1873, 34.2953,  
31.0384

■ 53.0779, 41.5083,  
40.5859

■ 59.0081, 50.3853,  
51.7601

■ 66.0343, 61.0216,  
64.6331

■ 74.2086, 73.5054,  
79.2724

■ 83.5798, 87.9189,  
95.7419

# Harmonies

## Analogous

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



39.9258, 19.7837, 26.2473



37.6764, 19.7837, 7.4631



29.8264, 19.7837, 1.5548

# Triad

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



37.6764, 19.7837, 7.4631



8.4695, 19.7837, 4.2997



17.3090, 19.7837, 108.3224

# Complementary

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



37.6764, 19.7837, 7.4631



41.8000, 67.0917, 62.9905

# 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.



10.8989, 19.7837, 85.5529



37.6764, 19.7837, 7.4631



6.8648, 19.7837, 17.4340

# Square

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



37.6764, 19.7837, 7.4631



12.8553, 19.7837, 0.9090



7.5985, 19.7837, 47.0701



26.3517, 19.7837, 97.0684



# Rectangle

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



37.6764, 19.7837, 7.4631



23.4487, 19.7837, 0.5924



7.5985, 19.7837, 47.0701



14.8168, 19.7837, 104.0811

# Sweetspot

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



37.6768, 19.7849, 7.4634



69.3050, 60.6308, 62.9511



38.4499, 18.4735, 84.7576



14.2837, 12.1475, 12.4556



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.



37.6768, 19.7849, 7.4634



41.8792, 21.5157, 5.2958



39.7291, 25.3438, 3.6639



15.9068, 15.8124, 17.0654



20.0222, 10.2813, 2.7673



1.7006, 0.8693, 0.4141



# Inverse Universe

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



37.6768, 19.7849, 7.4634



41.8792, 21.5157, 5.2958



32.4802, 38.9967, 89.0336



15.9068, 15.8124, 17.0654



20.0222, 10.2813, 2.7673



1.7006, 0.8693, 0.4141



# Previews

## White Background



This preview shows how the XYZ color 37.6764, 19.7837, 7.4631 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 37.6764, 19.7837, 7.4631 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 37.6764, 19.7837, 7.4631**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6764, 19.7837, 7.4631.



This preview shows how white text looks on a background with the XYZ color 37.6764, 19.7837,

7.4631.

# 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

37.6764, 19.7837, 7.4631

### Protanopia

18.9167, 20.1802, 15.2101

### Deuteranopia

20.3538, 20.0246, 6.6633



## Tritanopia

36.7835, 19.8263, 3.1845

# Trichromacy



## Original Color

37.6764, 19.7837, 7.4631

## Protanomaly

22.0875, 16.3586, 11.4446

## Deuteranomaly

24.0202, 16.9919, 6.4286

## Tritanomaly

36.8988, 19.6947, 4.3393

# Monochromacy



## Original Color

37.6764, 19.7837, 7.4631

## Achromatopsia

10.6392, 11.1932, 12.1894

## Achromatomaly

15.8004, 11.1152, 9.9070

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6764, 19.7837, 7.4631 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(241, 24, 69)` looks like.

```
.text, #text, p{  
    color:rgb(241, 24, 69)  
}
```

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(241, 24, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 24, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6764, 19.7837, 7.4631 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(241, 24, 69) }
```



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

```
.border{ border-color:rgb(241, 24, 69) }
```

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

Here you see how a box with a 4 pixel rgb(241, 24, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 24, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 24, 69);  
box-shadow:4px 4px 4px 4px rgb(241, 24,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6764, 19.7837, 7.4631 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 24, 69) }
```

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

```
.background{ background-color: rgb(241, 24,  
69) }
```

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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