

# Converting Colors

XYZ(31.8176, 19.4376, 7.7051)

Have a look what the booklet for  
XYZ(31.8176, 19.4376, 7.7051)  
contains.

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# Color

**XYZ(31.8176, 19.4376,  
7.7051)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D94545
RGB	217, 69, 69
RGB Percent	85%, 27%, 27%
CMY	0.1490, 0.7294, 0.7294
CMYK	0.00, 0.68, 0.68, 0.15
HSL	0°, 66%, 56%
HSV	0°, 68%, 85%
XYZ	31.8176, 19.4376, 7.7051
YIQ	113.2520, 88.2080, 31.3760

# Conversions

## Conversions Part 2

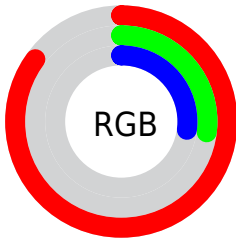
Format	Color
R <sub>Y</sub> B	217, 69, 69
Decimal	14239045
CIE Lab	51.20, 57.54, 33.13
CIE LCh	51, 66.394, 29.932
Yxy	19.4376, 0.5396, 0.3297
Android (android.graphics.Color)	4292429125 (0xFFD94545)
YUV	113.2520, -21.8162, 90.9870
Hunter-Lab	44.0881, 51.6661, 20.4998

# Details

The XYZ color **31.8176, 19.4376, 7.7051** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **39.7892, 55.8960, 74.3373**, and the grayscale version is **15.8163, 16.6400, 18.1210**.

A 20% lighter version of the original color is **51.7845, 37.2116, 21.2828**, and **13.6930, 7.0387, 1.5566** is the 20% darker color. If you saturate the color by 10%, you get **30.1633, 17.0173, 4.4161**, and if you desaturate by 10%, it is **34.2068, 22.9342, 12.4538**.

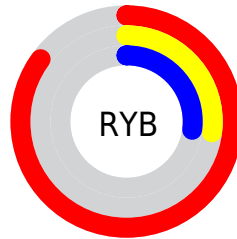
# Distribution



Red (85%)

Green (27%)

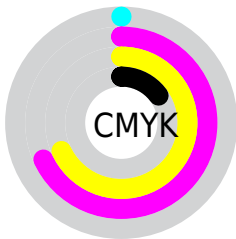
Blue (27%)



Red (85%)

Yellow (27%)

Blue (27%)

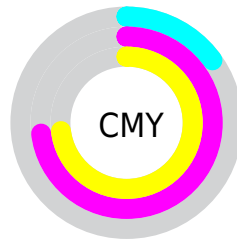


Cyan (0%)

Magenta (68%)

Yellow (68%)

Black (15%)



Cyan (15%)

Magenta (73%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8176, 19.4376, 7.7051 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 31.8176, 19.4376, 7.7051 by changing the saturation by 10% instead.





 31.8176, 19.4376,  
7.7051


 31.8176, 19.4376,  
7.7051


302.0476,  
248.8540, 183.2477


 21.3771, 11.9869,  
3.8218


 61.8922, 42.4722,  
21.9148

 13.5139, 6.7348,  
1.5281


 82.2569, 58.8250,  
33.0783

 7.8628, 3.2968,  
0.2387


 106.6605, 78.9138,  
47.5055

 4.0584, 1.2886,  
0.0000

 135.4682,  
103.1232, 65.6151

 1.7352, 0.1323,  
0.0000

 169.0454,  
131.8376, 87.8256

 0.4782, 0.0000,  
0.0000

207.7575,

 0.0000, 0.0000,

165.4412, 114.5555

0.0000

251.9697,  
204.3186, 146.2233

■ 31.8176, 19.4376,  
7.7051

■ 31.8176, 19.4376,  
7.7051

■ 30.1633, 17.0173,  
4.4161

■ 34.2068, 22.9342,  
12.4538

■ 29.1580, 15.5462,  
2.4180

■ 37.4013, 27.6088,  
18.8042


■ 28.6790, 14.8451,  
1.4659


■ 41.4649, 33.5551,  
26.8824


■ 28.6153, 14.7519,  
1.3392


■ 46.4547, 40.8565,  
36.8017

■ 52.4226, 49.5893,  
48.6658

 59.4171, 59.8242,  
62.5706

 67.4832, 71.6271,  
78.6058

 76.6632, 85.0600,  
96.8557

 82.4251, 93.4916,  
108.3092

# Harmonies

## Analogous

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



34.3151, 19.4376, 21.2073



31.8176, 19.4376, 7.7051



25.5996, 19.4376, 2.7100

# Triad

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



31.8176, 19.4376, 7.7051



9.5165, 19.4376, 7.6671



18.4598, 19.4376, 82.3873

# Complementary

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



31.8176, 19.4376, 7.7051



39.7892, 55.8960, 74.3373

# 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.



12.8123, 19.4376, 70.8548



31.8176, 19.4376, 7.7051



8.4596, 19.4376, 21.1212

# Square

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



31.8176, 19.4376, 7.7051



12.8328, 19.4376, 2.6991



9.5068, 19.4376, 45.0071



25.5672, 19.4376, 70.9513



# Rectangle

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



31.8176, 19.4376, 7.7051



20.7861, 19.4376, 1.7510



9.5068, 19.4376, 45.0071



16.3416, 19.4376, 81.0086

# Sweetspot

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



31.8180, 19.4387, 7.7054



73.7327, 68.8068, 66.5216



43.2676, 24.0177, 68.0008



15.2457, 13.9430, 13.1726



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.



31.8180, 19.4387, 7.7054



42.7047, 23.4036, 4.8410



39.5118, 34.8263, 10.2700



13.0562, 13.0517, 13.5567



17.3223, 8.9301, 0.8107



1.1222, 0.5786, 0.0525



# Inverse Universe

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



39.7892, 55.8960, 74.3373



54.9283, 79.3108, 107.0212



24.8011, 25.9199, 69.3412



13.4449, 14.8295, 16.8059



22.6001, 33.0695, 44.9303



1.4642, 2.1424, 2.9108



# Previews

## White Background



This preview shows how the XYZ color 31.8176, 19.4376, 7.7051 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 31.8176, 19.4376, 7.7051 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

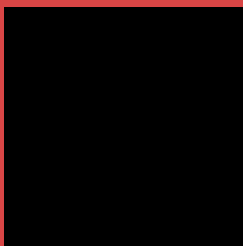
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.8176, 19.4376, 7.7051**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8176, 19.4376, 7.7051.



This preview shows how white text looks on a background with the XYZ color 31.8176, 19.4376,



# 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

31.8176, 19.4376, 7.7051

### Protanopia

18.2784, 19.5459, 12.2605

### Deuteranopia

19.9661, 19.6388, 7.1532



## Tritanopia

31.9131, 19.4758, 8.2081

# Trichromacy



## Original Color

31.8176, 19.4376, 7.7051

## Protanomaly

21.4775, 18.0962, 10.3436

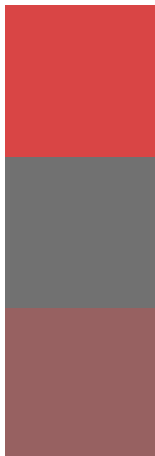
## Deuteranomaly

23.1618, 18.5985, 7.2196

## Tritanomaly

31.8807, 19.4629, 8.0376

# Monochromacy



## Original Color

31.8176, 19.4376, 7.7051

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

19.1949, 15.9918, 13.3843

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8176, 19.4376, 7.7051 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(217, 69, 69)` looks like.

```
.text, #text, p{  
    color:rgb(217, 69, 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(217, 69, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 69, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8176, 19.4376, 7.7051 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(217, 69, 69) }
```



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

```
.border{ border-color:rgb(217, 69, 69) }
```

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

Here you see how a box with a 4 pixel rgb(217, 69, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 69, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 69, 69);  
box-shadow:4px 4px 4px 4px rgb(217, 69,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8176, 19.4376, 7.7051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 69, 69) }
```

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

```
.background{ background-color: rgb(217, 69,  
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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