

# Converting Colors

$Y_{xy}(19.7618, 0.6080, 0.3308)$

Have a look what the booklet for  
Yxy(19.7618, 0.6080, 0.3308)  
contains.

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# Color

**Yxy(19.7618, 0.6080, 0.3308)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EE2725
RGB	238, 39, 37
RGB Percent	93%, 15%, 15%
CMY	0.0666, 0.8471, 0.8546
CMYK	0.00, 0.84, 0.84, 0.07
HSL	1°, 86%, 54%
HSV	1°, 84%, 93%
XYZ	36.3216, 19.7618, 3.6561
YIQ	98.2730, 119.2460, 41.5660

# Conversions

## Conversions Part 2

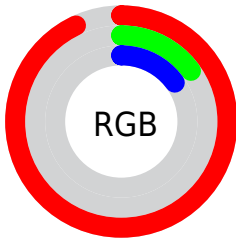
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	238, 39, 37
Decimal	15607589
CIE <sub>Lab</sub>	51.57, 71.60, 51.97
CIE <sub>LCh</sub>	52, 88.475, 35.974
Yxy	19.7618, 0.6080, 0.3308
Android (android.graphics.Color)	4293797669 (0xFFEE2725)
YUV	98.2730, -30.2076, 122.5406
Hunter-Lab	44.4542, 68.0494, 26.2418

# Details

The Yxy color **19.7618, 0.6080, 0.3308** 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 **66.6014, 0.2264, 0.3263**, and the grayscale version is **12.3424, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.2239, 0.5191, 0.3482**, and **8.7707, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **18.5616, 0.6322, 0.3304**, and if you desaturate by 10%, it is **22.0213, 0.5690, 0.3310**.

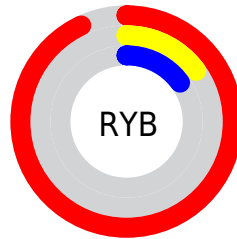
# Distribution



Red (93%)

Green (15%)

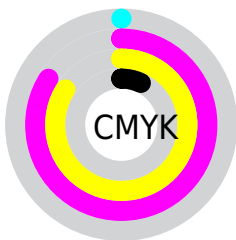
Blue (15%)



Red (93%)

Yellow (15%)

Blue (15%)

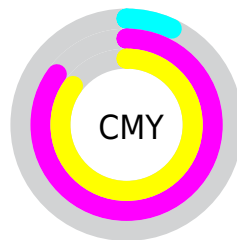


Cyan (0%)

Magenta (84%)

Yellow (84%)

Black (7%)



Cyan (7%)

Magenta (85%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.7618, 0.6080, 0.3308 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 Yxy color 19.7618, 0.6080, 0.3308 by changing the saturation by 10% instead.





 19.7618, 0.6080,  
0.3308


 19.7618, 0.6080,  
0.3308


250.6227, 0.4490,  
0.3497


 12.2220, 0.6453,  
0.3173

 43.0175, 0.5505,  
0.3439


 6.8951, 0.6949,  
0.2977


 59.5021, 0.5284,  
0.3469


 3.3966, 0.7403,  
0.2597


 79.7372, 0.5098,  
0.3486

 1.3421, 0.7964,  
0.2036

 104.1071, 0.4939,  
0.3496

 0.1735, 0.9334,  
0.0666

 132.9962, 0.4803,  
0.3500


 0.0000, 1.0000,  
0.0000


 166.7889, 0.4684,

 0.0000, 0.0000,


0.3501


0.0000

 205.8696, 0.4581,  
0.3500

 19.7618, 0.6080,  
0.3308


 19.7618, 0.6080,  
0.3308

 18.5616, 0.6322,  
0.3304

 22.0213, 0.5690,  
0.3310

 18.2276, 0.6396,  
0.3304

 25.5073, 0.5220,  
0.3310

 30.3614, 0.4744,  
0.3308


 36.7054, 0.4310,  
0.3305

 44.6472, 0.3941,  
0.3301

 54.2851, 0.3639,  
0.3298

 65.7092, 0.3395,  
0.3294

 79.0035, 0.3200,  
0.3291

 94.2465, 0.3045,  
0.3289

# Harmonies

## Analogous

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



19.7618, 0.5314, 0.2532



19.7618, 0.6080, 0.3308



19.7618, 0.5673, 0.4207

# Triad

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



19.7618, 0.6080, 0.3308



19.7618, 0.2088, 0.5823



19.7618, 0.1315, 0.1261

# Complementary

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



19.7618, 0.6080, 0.3308



66.6014, 0.2264, 0.3263

# 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.



19.7618, 0.0923, 0.1443



19.7618, 0.6080, 0.3308



19.7618, 0.1200, 0.3716

# Square

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



19.7618, 0.6080, 0.3308



19.7618, 0.3316, 0.6292



19.7618, 0.0867, 0.2127



19.7618, 0.2179, 0.1401



# Rectangle

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



19.7618, 0.6080, 0.3308



19.7618, 0.5026, 0.4963



19.7618, 0.0867, 0.2127



19.7618, 0.1142, 0.1282

# Sweetspot

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



19.7630, 0.6080, 0.3308



62.6715, 0.3657, 0.3298



25.6788, 0.3206, 0.1603



12.5240, 0.3758, 0.3299



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



19.7630, 0.6080, 0.3308



21.3132, 0.6396, 0.3303



36.3564, 0.5105, 0.4160



15.7831, 0.3293, 0.3293



10.1793, 0.6394, 0.3305



0.8553, 0.6375, 0.3320



# Inverse Universe

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



66.6014, 0.2264, 0.3263



77.1867, 0.2238, 0.3258



24.6124, 0.1880, 0.1835



17.9014, 0.2981, 0.3287



36.8327, 0.2239, 0.3258



3.0725, 0.2240, 0.3262



# Previews

## White Background



This preview shows how the Yxy color 19.7618, 0.6080, 0.3308 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 Yxy color 19.7618, 0.6080, 0.3308 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](#).

**Yxy 19.7618, 0.6080, 0.3308**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.7618, 0.6080, 0.3308.



This preview shows how white text looks on a background with the Yxy color 19.7618, 0.6080, 0.3308.

# 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

19.7618, 0.6080, 0.3308

### Protanopia

20.0392, 0.4043, 0.4430

### Deuteranopia

19.7905, 0.4709, 0.4643



## Tritanopia

19.7618, 0.6080, 0.3308

# Trichromacy



**Original Color**

19.7618, 0.6080, 0.3308

**Protanomaly**

17.0577, 0.4970, 0.3863

**Deuteranomaly**

17.6129, 0.5427, 0.4000

**Tritanomaly**

19.7618, 0.6080, 0.3308

# Monochromacy



**Original Color**

19.7618, 0.6080, 0.3308

**Achromatopsia**

12.2139, 0.3127, 0.3290

**Achromatomaly**

12.2191, 0.4431, 0.3311

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.7618, 0.6080, 0.3308 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(238, 39, 37)` looks like.

```
.text, #text, p{  
  color:rgb(238, 39, 37)  
}
```

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(238, 39, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 39, 37) }
```

## Border

The CSS property to change the border of an element to Yxy 19.7618, 0.6080, 0.3308 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(238, 39, 37) }
```

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

```
.border{ border-color:rgb(238, 39, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 39, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 39, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 39, 37);  
box-shadow:4px 4px 4px 4px rgb(238, 39,  
37) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.7618, 0.6080, 0.3308 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 39, 37) }
```

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

```
.background{ background-color: rgb(238, 39,  
37) }
```

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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