

# Converting Colors

$Y_{xy}(18.6696, 0.6130, 0.3150)$

Have a look what the booklet for  
Yxy(18.6696, 0.6130, 0.3150)  
contains.

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**Color**

**Yxy(18.7225, 0.6130, 0.3150)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F0002E
RGB	240, 0, 46
RGB Percent	94%, 0%, 18%
CMY	0.0587, 1.0000, 0.8196
CMYK	0.00, 1.00, 0.81, 0.06
HSL	348°, 100%, 47%
HSV	348°, 100%, 94%
XYZ	36.4346, 18.7225, 4.2794
YIQ	77.0040, 128.2740, 65.1860

# Conversions

## Conversions Part 2

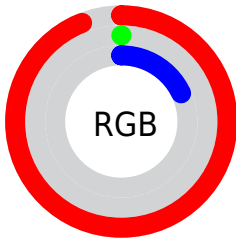
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	240, 0, 46
Decimal	15728686
CIE Lab	50.36, 77.17, 46.42
CIE LCh	50, 90.058, 31.024
Yxy	18.7225, 0.6130, 0.3150
Android (android.graphics.Color)	4293918766 (0xFFFF002E)
YUV	77.0040, -15.2850, 142.9475
Hunter-Lab	43.2695, 74.5822, 24.4248

# Details

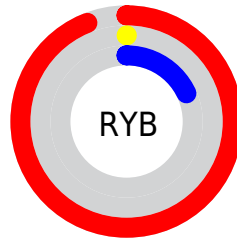
The Yxy color **18.7225, 0.6130, 0.3150** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **66.2295, 0.2423, 0.3923**, and the grayscale version is **7.4347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0557, 0.5192, 0.3305**, and **9.0009, 0.6394, 0.3296** is the 20% darker color. If you saturate the color by 10%, you get **18.7267, 0.6130, 0.3150**, and if you desaturate by 10%, it is **19.5692, 0.5847, 0.3073**.

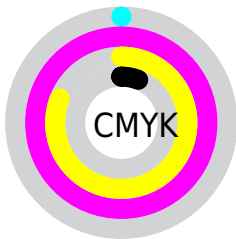
# Distribution



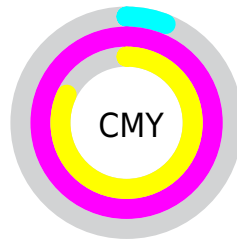
- Red (94%)
- Green (0%)
- Blue (18%)



- Red (94%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (6%)




- Cyan (6%)
- Magenta (100%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.7225, 0.6130, 0.3150 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 18.7225, 0.6130, 0.3150 by changing the saturation by 10% instead.





 18.7225, 0.6130,  
0.3150


 18.7225, 0.6130,  
0.3150


244.9125, 0.4485,  
0.3409


 11.4699, 0.6531,  
0.3003


 41.2647, 0.5525,  
0.3303

 6.3839, 0.7039,  
0.2780


 57.3230, 0.5296,  
0.3342

 3.0799, 0.7596,  
0.2404

 77.0855, 0.5105,  
0.3368

 1.1736, 0.8182,  
0.1818

 100.9364, 0.4942,  
0.3384

 0.0400, 0.9840,  
0.0160

 129.2602, 0.4803,  
0.3395

 0.0000, 1.0000,  
0.0000

 162.4412, 0.4682,

 0.0000, 0.0000,

0.3402

0.0000

200.8638, 0.4578,  
0.3407

■ 18.7225, 0.6130,  
0.3150

■ 18.7225, 0.6130,  
0.3150

■ 18.7267, 0.6130,  
0.3150

■ 19.5692, 0.5847,  
0.3073

■ 21.2966, 0.5475,  
0.3018

■ 24.1688, 0.5058,  
0.2998

■ 28.3424, 0.4644,  
0.3009

■ 33.9488, 0.4267,  
0.3042

■ 41.1037, 0.3942,  
0.3088

■ 49.9106, 0.3671,  
0.3139

■ 60.4643, 0.3450,  
0.3192

■ 72.8522, 0.3271,  
0.3242

# Harmonies

## Analogous

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



18.7225, 0.5139, 0.2379



18.7225, 0.6130, 0.3150



18.7225, 0.5855, 0.4024

# Triad

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



18.7225, 0.6130, 0.3150



18.7225, 0.2233, 0.6175



18.7225, 0.1182, 0.1223

# Complementary

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



18.7225, 0.6130, 0.3150



66.2295, 0.2423, 0.3923

# 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.



18.7225, 0.0848, 0.1466



18.7225, 0.6130, 0.3150



18.7225, 0.1253, 0.4096

# Square

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



18.7225, 0.6130, 0.3150



18.7225, 0.3504, 0.6270



18.7225, 0.0842, 0.2276



18.7225, 0.1962, 0.1315



# Rectangle

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



18.7225, 0.6130, 0.3150



18.7225, 0.5232, 0.4768



18.7225, 0.0842, 0.2276



18.7225, 0.1030, 0.1261

# Sweetspot

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



18.7267, 0.6130, 0.3150



57.1577, 0.3674, 0.3139



17.5016, 0.2699, 0.1261



11.2699, 0.3782, 0.3116



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.



18.7267, 0.6130, 0.3150



21.4808, 0.6136, 0.3154



23.1650, 0.5989, 0.3626



15.8084, 0.3263, 0.3245



10.2635, 0.6095, 0.3132



0.8672, 0.5747, 0.2940



# Inverse Universe

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



18.7267, 0.6130, 0.3150



21.4808, 0.6136, 0.3154



34.3040, 0.1962, 0.2264



15.8084, 0.3263, 0.3245



10.2635, 0.6095, 0.3132



0.8672, 0.5747, 0.2940



# Previews

## White Background



This preview shows how the Yxy color 18.7225, 0.6130, 0.3150 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 18.7225, 0.6130, 0.3150 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 18.7225, 0.6130, 0.3150**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.7225, 0.6130, 0.3150.



This preview shows how white text looks on a background with the Yxy color 18.7225, 0.6130, 0.3150.

# 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

18.7225, 0.6130, 0.3150

### Protanopia

19.3735, 0.3861, 0.4202

### Deuteranopia

19.1129, 0.4604, 0.4521



**Tritanopia**

18.8871, 0.6347, 0.3342

# Trichromacy



## Original Color

18.7225, 0.6130, 0.3150



## Protanomaly

14.5783, 0.4955, 0.3501



## Deuteranomaly

15.1949, 0.5515, 0.3695



## Tritanomaly

18.6790, 0.6314, 0.3290

# Monochromacy



## Original Color

18.7225, 0.6130, 0.3150



## Achromatopsia

7.4214, 0.3127, 0.3290



## Achromatomaly

7.8242, 0.4692, 0.3000

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.7225, 0.6130, 0.3150 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(240, 0, 46)` looks like.

```
.text, #text, p{  
    color:rgb(240, 0, 46)  
}
```

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(240, 0, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 0, 46) }
```

## Border

The CSS property to change the border of an element to Yxy 18.7225, 0.6130, 0.3150 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(240, 0, 46) }
```

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

```
.border{ border-color:rgb(240, 0, 46) }
```

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

Here you see how a box with a 4 pixel rgb(240, 0, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 0, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 0, 46);  
box-shadow:4px 4px 4px 4px rgb(240, 0, 46)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 18.7225, 0.6130, 0.3150 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 0, 46) }
```

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

```
.background{ background-color: rgb(240, 0,  
46) }
```

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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