

# Converting Colors

$Y_{xy}(18.1711, 0.5672, 0.3145)$

Have a look what the booklet for  
Yxy(18.1711, 0.5672, 0.3145)  
contains.

<b>Yxy(18.1057, 0.5674, 0.3148)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(18.1057, 0.5674, 0.3148)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E02D41
RGB	224, 45, 65
RGB Percent	88%, 18%, 25%
CMY	0.1216, 0.8235, 0.7451
CMYK	0.00, 0.80, 0.71, 0.12
HSL	353°, 74%, 53%
HSV	353°, 80%, 88%
XYZ	32.6340, 18.1057, 6.7753
YIQ	100.8010, 100.2640, 44.1680

# Conversions

## Conversions Part 2

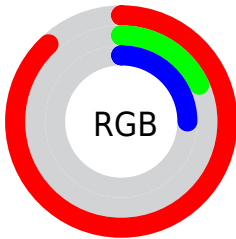
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	224, 45, 65
Decimal	14691649
CIE <sub>Lab</sub>	49.62, 67.26, 33.89
CIE <sub>LCh</sub>	50, 75.312, 26.745
Yxy	18.1057, 0.5674, 0.3148
Android (android.graphics.Color)	4292881729 (0xFFE02D41)
YUV	100.8010, -17.6499, 108.0455
Hunter-Lab	42.5508, 62.4352, 20.3450

# Details

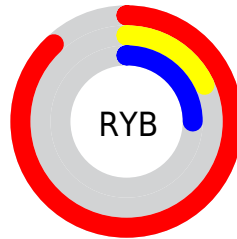
The Yxy color **18.1057, 0.5674, 0.3148** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **58.2318, 0.2367, 0.3568**, and the grayscale version is **12.9878, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.1774, 0.4853, 0.3247**, and **7.5315, 0.6200, 0.3189** is the 20% darker color. If you saturate the color by 10%, you get **16.6354, 0.6038, 0.3187**, and if you desaturate by 10%, it is **20.5650, 0.5237, 0.3130**.

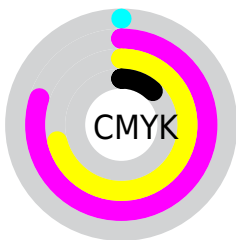
# Distribution



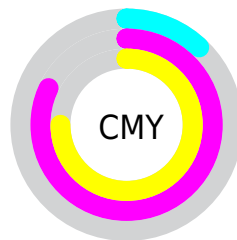
- Red (88%)
- Green (18%)
- Blue (25%)



- Red (88%)
- Yellow (18%)
- Blue (25%)



- Cyan (0%)
- Magenta (80%)
- Yellow (71%)
- Black (12%)




- Cyan (12%)
- Magenta (82%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.1057, 0.5674, 0.3148 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 18.1057, 0.5674, 0.3148 by changing the saturation by 10% instead.





 18.1057, 0.5674,  
0.3148


 18.1057, 0.5674,  
0.3148


241.4661, 0.4231,  
0.3342


 11.0259, 0.6066,  
0.3039


 40.2174, 0.5118,  
0.3259


 6.0843, 0.6567,  
0.2859

 56.0180, 0.4918,  
0.3288


 2.8964, 0.7386,  
0.2614

 75.4944, 0.4752,  
0.3307

 1.0779, 0.7983,  
0.2017

 99.0309, 0.4613,  
0.3320

 0.0000, 1.0000,  
0.0000

 127.0119, 0.4496,  
0.3329

 0.0000, 0.0000,  
0.0000

 159.8219, 0.4395,

0.3335

197.8452, 0.4307,  
0.3339

■ 18.1057, 0.5674,  
0.3148

■ 18.1057, 0.5674,  
0.3148

■ 16.6354, 0.6038,  
0.3187

■ 20.5650, 0.5237,  
0.3130

■ 15.9234, 0.6282,  
0.3235

■ 24.1435, 0.4789,  
0.3132

■ 15.9182, 0.6284,  
0.3235


■ 28.9549, 0.4376,  
0.3149

■ 35.0984, 0.4018,  
0.3174

■ 42.6628, 0.3720,  
0.3203

 51.7292, 0.3478,  
0.3233

 62.3729, 0.3283,  
0.3263

 74.6638, 0.3126,  
0.3290

 88.6679, 0.3000,  
0.3315

# Harmonies

## Analogous

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



18.1057, 0.4651, 0.2413



18.1057, 0.5674, 0.3148



18.1057, 0.5664, 0.3960

# Triad

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



18.1057, 0.5674, 0.3148



18.1057, 0.2588, 0.5796



18.1057, 0.1310, 0.1443

# Complementary

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



18.1057, 0.5674, 0.3148



58.2318, 0.2367, 0.3568

# 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.



18.1057, 0.1039, 0.1755



18.1057, 0.5674, 0.3148



18.1057, 0.1603, 0.4262

# Square

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



18.1057, 0.5674, 0.3148



18.1057, 0.3766, 0.5811



18.1057, 0.1105, 0.2624



18.1057, 0.1978, 0.1482



# Rectangle

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



18.1057, 0.5674, 0.3148



18.1057, 0.5202, 0.4581



18.1057, 0.1105, 0.2624



18.1057, 0.1182, 0.1502

# Sweetspot

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



18.1068, 0.5674, 0.3148



63.9545, 0.3575, 0.3221



19.9728, 0.2973, 0.1521



12.7717, 0.3664, 0.3210



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.



18.1068, 0.5674, 0.3148



21.6184, 0.6215, 0.3223



27.9870, 0.5231, 0.3936



13.7253, 0.3275, 0.3264



9.2735, 0.6261, 0.3223



0.6512, 0.5947, 0.3050



# Inverse Universe

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



18.1068, 0.5674, 0.3148



21.6184, 0.6215, 0.3223



29.5122, 0.2015, 0.2259



13.7253, 0.3275, 0.3264



9.2735, 0.6261, 0.3223



0.6512, 0.5947, 0.3050



# Previews

## White Background



This preview shows how the Yxy color 18.1057, 0.5674, 0.3148 looks on a white 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



# Black Background



This preview shows how the Yxy color 18.1057, 0.5674, 0.3148 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 18.1057, 0.5674, 0.3148**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.1057, 0.5674, 0.3148.



This preview shows how white text looks on a background with the Yxy color 18.1057, 0.5674, 0.3148.

# 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

18.1057, 0.5674, 0.3148

### Protanopia

18.4610, 0.3572, 0.3826

### Deuteranopia

18.2891, 0.4324, 0.4245



## Tritanopia

18.0236, 0.5851, 0.3291

# Trichromacy



## Original Color

18.1057, 0.5674, 0.3148

## Protanomaly

15.9449, 0.4384, 0.3452

## Deuteranomaly

16.4092, 0.4933, 0.3686

## Tritanomaly

17.9968, 0.5788, 0.3241

# Monochromacy



## Original Color

18.1057, 0.5674, 0.3148

## Achromatopsia

13.0136, 0.3127, 0.3290

## Achromatomaly

12.7004, 0.4132, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.1057, 0.5674, 0.3148 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(224, 45, 65)` looks like.

```
.text, #text, p{  
    color:rgb(224, 45, 65)  
}
```

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(224, 45, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 45, 65) }
```

## Border

The CSS property to change the border of an element to Yxy 18.1057, 0.5674, 0.3148 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(224, 45, 65) }
```

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

```
.border{ border-color:rgb(224, 45, 65) }
```

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

Here you see how a box with a 4 pixel rgb(224, 45, 65) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 45, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 45, 65);  
box-shadow:4px 4px 4px 4px rgb(224, 45,  
65) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.1057, 0.5674, 0.3148 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 45, 65) }
```

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

```
.background{ background-color: rgb(224, 45,  
65) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor