

# Converting Colors

$Y_{xy}(19.4421, 0.5467, 0.2910)$

Have a look what the booklet for  
Yxy(19.4421, 0.5467, 0.2910)  
contains.

<b>Yxy(19.4380, 0.5467, 0.2910)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(19.4380, 0.5467, 0.2910)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB2157
RGB	235, 33, 87
RGB Percent	92%, 13%, 34%
CMY	0.0785, 0.8702, 0.6589
CMYK	0.00, 0.86, 0.63, 0.08
HSL	344°, 83%, 53%
HSV	344°, 86%, 92%
XYZ	36.5181, 19.4380, 10.8412
YIQ	99.5540, 103.0580, 59.6180

# Conversions

## Conversions Part 2

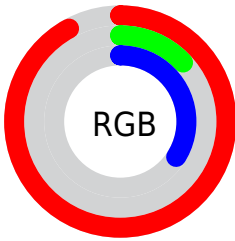
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	235, 33, 87
Decimal	15409495
CIE <sub>Lab</sub>	51.20, 73.85, 23.16
CIE <sub>LCh</sub>	51, 77.399, 17.409
Yxy	19.4380, 0.5467, 0.2910
Android (android.graphics.Color)	4293599575 (0xFFEB2157)
YUV	99.5540, -6.1891, 118.7861
Hunter-Lab	44.0885, 70.6946, 16.2828

# Details

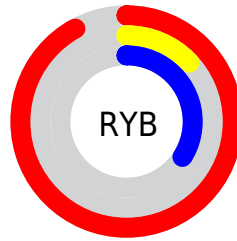
The Yxy color **19.4380, 0.5467, 0.2910** is a dark color, and the websafe version is hex **FF3366**. The color can be described as dark washed red. A complement of this color would be **63.0661, 0.2485, 0.4052**, and the grayscale version is **12.6354, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.9382, 0.4580, 0.2979**, and **8.8323, 0.5912, 0.3030** is the 20% darker color. If you saturate the color by 10%, you get **18.3053, 0.5795, 0.2992**, and if you desaturate by 10%, it is **21.5488, 0.5090, 0.2871**.

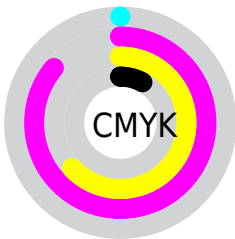
# Distribution



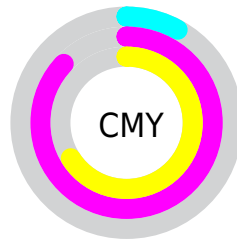
- Red (92%)
- Green (13%)
- Blue (34%)



- Red (92%)
- Yellow (13%)
- Blue (34%)



- Cyan (0%)
- Magenta (86%)
- Yellow (63%)
- Black (8%)




- Cyan (8%)
- Magenta (87%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.4380, 0.5467, 0.2910 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 19.4380, 0.5467, 0.2910 by changing the saturation by 10% instead.





 19.4380, 0.5467,  
0.2910

 19.4380, 0.5467,  
0.2910


248.8562, 0.4143,  
0.3196


 11.9872, 0.5837,  
0.2798


 42.4729, 0.4953,  
0.3042


 6.7350, 0.6325,  
0.2628


 58.8258, 0.4769,  
0.3083

 3.2969, 0.6976,  
0.2355

 78.9149, 0.4617,  
0.3114

 1.2886, 0.8046,  
0.1954

 103.1245, 0.4491,  
0.3138

 0.1324, 0.9490,  
0.0510

 131.8390, 0.4384,  
0.3157

 0.0000, 1.0000,  
0.0000

165.4429, 0.4292,

 0.0000, 0.0000,

0.3172

0.0000

204.3205, 0.4212,  
0.3185

■ 19.4380, 0.5467,  
0.2910

■ 19.4380, 0.5467,  
0.2910

■ 18.3053, 0.5795,  
0.2992

■ 21.5488, 0.5090,  
0.2871

■ 18.0132, 0.5912,  
0.3030


■ 24.8013, 0.4706,  
0.2874


■ 29.3323, 0.4346,  
0.2910

■ 35.2582, 0.4028,  
0.2968

■ 42.6824, 0.3757,  
0.3037

 51.6982, 0.3534,  
0.3110

 62.3913, 0.3350,  
0.3182

 74.8415, 0.3202,  
0.3251

 89.1232, 0.3081,  
0.3316

# Harmonies

## Analogous

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



19.4380, 0.4194, 0.2202



19.4380, 0.5467, 0.2910



19.4380, 0.5779, 0.3693

# Triad

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



19.4380, 0.5467, 0.2910



19.4380, 0.2947, 0.5982



19.4380, 0.1184, 0.1492

# Complementary

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



19.4380, 0.5467, 0.2910



63.0661, 0.2485, 0.4052

# 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.



19.4380, 0.1017, 0.1946



19.4380, 0.5467, 0.2910



19.4380, 0.1861, 0.4847

# Square

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



19.4380, 0.5467, 0.2910



19.4380, 0.4131, 0.5580



19.4380, 0.1200, 0.3054



19.4380, 0.1716, 0.1433



# Rectangle

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



19.4380, 0.5467, 0.2910



19.4380, 0.5456, 0.4282



19.4380, 0.1200, 0.3054



19.4380, 0.1092, 0.1590

# Sweetspot

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



19.4392, 0.5467, 0.2910



62.0017, 0.3538, 0.3109



16.5291, 0.2596, 0.1268



12.4176, 0.3611, 0.3083



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.



19.4392, 0.5467, 0.2910



21.6781, 0.5923, 0.3036



23.0542, 0.5793, 0.3593



15.1201, 0.3251, 0.3227



10.0459, 0.5872, 0.3009



0.8044, 0.5479, 0.2792



# Inverse Universe

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



19.4392, 0.5467, 0.2910



21.6781, 0.5923, 0.3036



43.6861, 0.2102, 0.2677



15.1201, 0.3251, 0.3227



10.0459, 0.5872, 0.3009



0.8044, 0.5479, 0.2792



# Previews

## White Background



This preview shows how the Yxy color 19.4380, 0.5467, 0.2910 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 19.4380, 0.5467, 0.2910 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 19.4380, 0.5467, 0.2910**

## Background



This preview shows how black text looks on a background with the Yxy color 19.4380, 0.5467, 0.2910.



This preview shows how white text looks on a background with the Yxy color 19.4380, 0.5467, 0.2910.

# 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

19.4380, 0.5467, 0.2910

### Protanopia

19.6594, 0.3129, 0.3253

### Deuteranopia

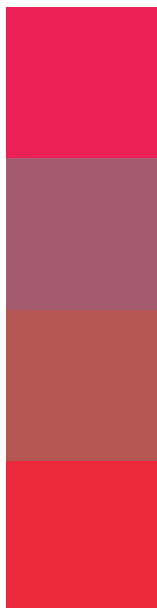
19.5543, 0.4046, 0.3973



## Tritanopia

19.3899, 0.5957, 0.3298

# Trichromacy



## Original Color

19.4380, 0.5467, 0.2910

## Protanomaly

16.3525, 0.3953, 0.2961

## Deuteranomaly

16.9530, 0.4690, 0.3364

## Tritanomaly

19.4045, 0.5817, 0.3176

# Monochromacy



## Original Color

19.4380, 0.5467, 0.2910

## Achromatopsia

12.7438, 0.3127, 0.3290

## Achromatomaly

12.3847, 0.4083, 0.2967

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.4380, 0.5467, 0.2910 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(235, 33, 87)` looks like.

```
.text, #text, p{  
    color:rgb(235, 33, 87)  
}
```

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(235, 33, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 33, 87) }
```

## Border

The CSS property to change the border of an element to Yxy 19.4380, 0.5467, 0.2910 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(235, 33, 87) }
```

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

```
.border{ border-color:rgb(235, 33, 87) }
```

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

Here you see how a box with a 4 pixel rgb(235, 33, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 33, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 33, 87);  
box-shadow:4px 4px 4px 4px rgb(235, 33,  
87) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.4380, 0.5467, 0.2910 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 33, 87) }
```

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

```
.background{ background-color: rgb(235, 33,  
87) }
```

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