

# Converting Colors

$Y_{xy}(31.6044, 0.3434, 0.2140)$

Have a look what the booklet for  
Yxy(31.6044, 0.3434, 0.2140)  
contains.

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# Color

**Yxy(31.4797, 0.3438, 0.2140)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB64D3
RGB	235, 100, 211
RGB Percent	92%, 39%, 83%
CMY	0.0785, 0.6078, 0.1725
CMYK	0.00, 0.57, 0.10, 0.08
HSL	311°, 77%, 66%
HSV	311°, 57%, 92%
XYZ	50.5735, 31.4797, 65.0482
YIQ	153.0190, 44.8290, 63.1410

# Conversions

## Conversions Part 2

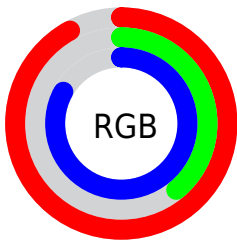
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	235, 100, 211
Decimal	15426771
CIE Lab	62.91, 65.03, -32.39
CIE LCh	63, 72.653, 333.523
Yxy	31.4797, 0.3438, 0.2140
Android (android.graphics.Color)	4293616851 (0xFFEB64D3)
YUV	153.0190, 28.5846, 71.8973
Hunter-Lab	56.1068, 62.7093, -29.4640

# Details

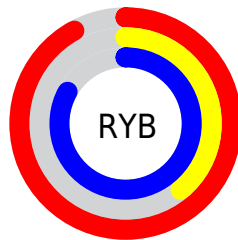
The Yxy color **31.4797, 0.3438, 0.2140** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **63.5731, 0.2936, 0.4835**, and the grayscale version is **31.7255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **52.5939, 0.3172, 0.2338**, and **13.0814, 0.3499, 0.1858** is the 20% darker color. If you saturate the color by 10%, you get **27.3975, 0.3507, 0.1997**, and if you desaturate by 10%, it is **36.8699, 0.3371, 0.2315**.

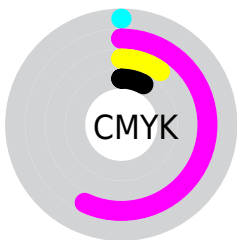
# Distribution



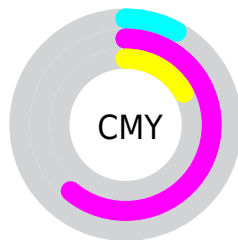
- Red (92%)
- Green (39%)
- Blue (83%)



- Red (92%)
- Yellow (39%)
- Blue (83%)



- Cyan (0%)
- Magenta (57%)
- Yellow (10%)
- Black (8%)




- Cyan (8%)
- Magenta (61%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.4797, 0.3438, 0.2140 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 31.4797, 0.3438, 0.2140 by changing the saturation by 10% instead.





 31.4797, 0.3438,  
0.2140


 31.4797, 0.3438,  
0.2140


308.7422, 0.3300,  
0.2686


 20.9644, 0.3467,  
0.2014


 61.9945, 0.3392,  
0.2331

 13.0980, 0.3500,  
0.1858


 82.7628, 0.3374,  
0.2405

 7.4961, 0.3539,  
0.1662


 107.7176, 0.3358,  
0.2469

 3.7742, 0.3583,  
0.1410

 137.2433, 0.3343,  
0.2524

 1.5481, 0.3626,  
0.1082

171.7241, 0.3331,  
0.2572

 0.3222, 0.3709,  
0.0499

211.5447, 0.3320,

 0.0000, 0.3622,


0.2615


0.0000


257.0892, 0.3309,  
0.2652

 0.0000, 0.0000,  
0.0000


 31.4797, 0.3438,  
0.2140

 31.4797, 0.3438,  
0.2140


 27.3975, 0.3507,  
0.1997

 36.8699, 0.3371,  
0.2315


 24.5037, 0.3577,  
0.1894


 43.6651, 0.3309,  
0.2512


 22.6642, 0.3645,  
0.1837

 51.9583, 0.3252,  
0.2720

 21.6999, 0.3709,  
0.1825

 61.8335, 0.3201,  
0.2932

 21.5211, 0.3725,  
0.1826

 73.3680, 0.3156,  
0.3140

 86.6344, 0.3118,  
0.3340

 95.4844, 0.3088,  
0.3437

 95.7356, 0.3064,  
0.3395

 95.9926, 0.3041,  
0.3353

# Harmonies

## Analogous

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



31.4797, 0.2365, 0.1781



31.4797, 0.3438, 0.2140



31.4797, 0.4609, 0.2716

# Triad

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



31.4797, 0.3438, 0.2140



31.4797, 0.4513, 0.4940



31.4797, 0.1356, 0.2569

# Complementary

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



31.4797, 0.3438, 0.2140



63.5731, 0.2936, 0.4835

# 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.



31.4797, 0.1739, 0.3756



31.4797, 0.3438, 0.2140



31.4797, 0.3548, 0.5440

# Square

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



31.4797, 0.3438, 0.2140



31.4797, 0.5195, 0.4160



31.4797, 0.2534, 0.5039



31.4797, 0.1349, 0.1916



# Rectangle

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



31.4797, 0.3438, 0.2140



31.4797, 0.5150, 0.3169



31.4797, 0.2534, 0.5039



31.4797, 0.1438, 0.2908

# Sweetspot

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



31.4812, 0.3438, 0.2140



74.9062, 0.3199, 0.2939



19.2901, 0.2164, 0.1509



15.4826, 0.3209, 0.2897



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.



31.4812, 0.3438, 0.2140



32.2276, 0.3520, 0.1974



28.8218, 0.4274, 0.2804



15.2652, 0.3165, 0.3098



11.9964, 0.3716, 0.1821



0.9540, 0.3633, 0.1775



# Inverse Universe

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



31.4812, 0.3438, 0.2140



32.2276, 0.3520, 0.1974



65.8357, 0.2616, 0.3891



15.2652, 0.3165, 0.3098



11.9964, 0.3716, 0.1821

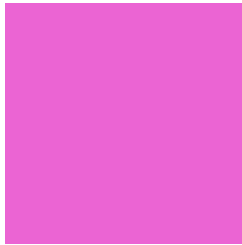


0.9540, 0.3633, 0.1775



# Previews

## White Background



This preview shows how the Yxy color 31.4797, 0.3438, 0.2140 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

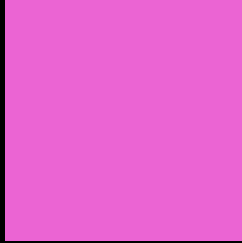
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.4797, 0.3438, 0.2140 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

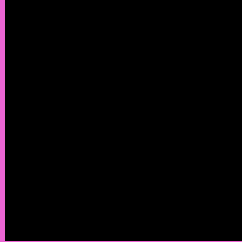
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.4797, 0.3438, 0.2140**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.4797, 0.3438, 0.2140.



This preview shows how white text looks on a background with the Yxy color 31.4797, 0.3438, 0.2140.

# 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

31.4797, 0.3438, 0.2140

### Protanopia

31.9027, 0.2137, 0.1955

### Deuteranopia

31.6999, 0.2598, 0.2534



## Tritanopia

31.4285, 0.4293, 0.3200

# Trichromacy



## Original Color

31.4797, 0.3438, 0.2140



## Protanomaly

29.4149, 0.2468, 0.1956



## Deuteranomaly

30.0727, 0.2865, 0.2324



## Tritanomaly

30.9715, 0.3975, 0.2768

# Monochromacy



## Original Color

31.4797, 0.3438, 0.2140



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

30.1735, 0.3249, 0.2747

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.4797, 0.3438, 0.2140 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, 100, 211)` looks like.

```
.text, #text, p{  
    color:rgb(235, 100, 211)  
}
```

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, 100, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 100, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 31.4797, 0.3438, 0.2140 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, 100, 211) }
```

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

```
.border{ border-color:rgb(235, 100, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 100, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(235, 100, 211); -webkit-box-shadow:4px 4px 4px 4px rgb(235, 100, 211); box-shadow:4px 4px 4px 4px rgb(235, 100, 211) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.4797, 0.3438, 0.2140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 100, 211) }
```

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

```
.background{ background-color: rgb(235,  
100, 211) }
```

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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