

# Converting Colors

$Y_{xy}(36.8827, 0.3299, 0.2165)$

Have a look what the booklet for  
Yxy(36.8827, 0.3299, 0.2165)  
contains.

<b>Yxy(36.8493, 0.3298, 0.2159)</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(36.8493, 0.3298, 0.2159)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F075E4
RGB	240, 117, 228
RGB Percent	94%, 46%, 89%
CMY	0.0590, 0.5410, 0.1059
CMYK	0.00, 0.51, 0.05, 0.06
HSL	306°, 80%, 70%
HSV	306°, 51%, 94%
XYZ	56.2895, 36.8493, 77.5388
YIQ	166.4310, 37.6770, 60.5970

# Conversions

## Conversions Part 2

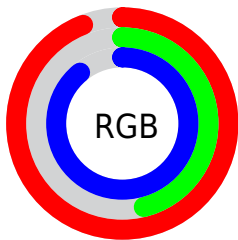
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	240, 117, 228
Decimal	15758820
CIE Lab	67.16, 61.42, -35.21
CIE LCh	67, 70.801, 330.174
Yxy	36.8493, 0.3298, 0.2159
Android (android.graphics.Color)	4293948900 (0xFFFF075E4)
YUV	166.4310, 30.3535, 64.5200
Hunter-Lab	60.7036, 59.2888, -33.2406

# Details

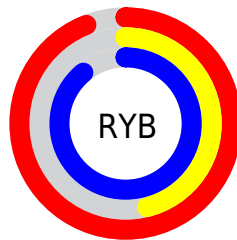
The Yxy color **36.8493, 0.3298, 0.2159** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **67.6679, 0.2996, 0.4775**, and the grayscale version is **38.1936, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.3671, 0.3165, 0.2488**, and **16.1398, 0.3315, 0.1899** is the 20% darker color. If you saturate the color by 10%, you get **31.8267, 0.3337, 0.1985**, and if you desaturate by 10%, it is **43.3100, 0.3260, 0.2361**.

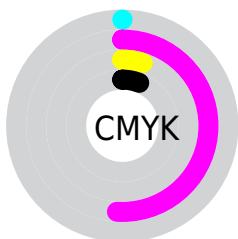
# Distribution



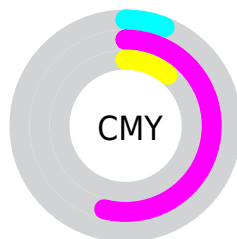
- Red (94%)
- Green (46%)
- Blue (89%)



- Red (94%)
- Yellow (46%)
- Blue (89%)



- Cyan (0%)
- Magenta (51%)
- Yellow (5%)
- Black (6%)




- Cyan (6%)
- Magenta (54%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8493, 0.3298, 0.2159 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 36.8493, 0.3298, 0.2159 by changing the saturation by 10% instead.




 36.8493, 0.3298,  
0.2159


 36.8493, 0.3298,  
0.2159


332.6576, 0.3234,  
0.2684


 25.0908, 0.3308,  
0.2041


 70.3409, 0.3279,  
0.2340

 16.1447, 0.3318,  
0.1896


 92.8429, 0.3271,  
0.2411

 9.6266, 0.3327,  
0.1717


 119.6948, 0.3263,  
0.2472

 5.1521, 0.3330,  
0.1489

151.2811, 0.3256,  
0.2525

 2.3368, 0.3318,  
0.1195

187.9861, 0.3250,  
0.2572

 0.7931, 0.3268,  
0.0813

230.1943, 0.3244,

 0.0000, 0.3218,

0.2613

0.0000

278.2900, 0.3239,  
0.2650

0.0000, 0.1399,  
0.0000

0.0000, 0.0000,  
0.0000

36.8493, 0.3298,  
0.2159

36.8493, 0.3298,  
0.2159

31.8267, 0.3337,  
0.1985

43.3100, 0.3260,  
0.2361

28.1254, 0.3376,  
0.1847


51.3038, 0.3223,  
0.2582


25.6187, 0.3413,  
0.1752

60.9234, 0.3189,  
0.2811

24.1528, 0.3447,  
0.1702

72.2527, 0.3158,  
0.3040

 23.5075, 0.3475,  
0.1688

 85.3698, 0.3130,  
0.3263

 96.4503, 0.3108,  
0.3418

 96.5917, 0.3095,  
0.3395

 96.7348, 0.3082,  
0.3372

 96.8797, 0.3069,  
0.3348

# Harmonies

## Analogous

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



36.8493, 0.2327, 0.1843



36.8493, 0.3298, 0.2159



36.8493, 0.4392, 0.2691

# Triad

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



36.8493, 0.3298, 0.2159



36.8493, 0.4540, 0.4785



36.8493, 0.1481, 0.2733

# Complementary

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



36.8493, 0.3298, 0.2159



67.6679, 0.2996, 0.4775

# 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.



36.8493, 0.1900, 0.3869



36.8493, 0.3298, 0.2159



36.8493, 0.3657, 0.5264

# Square

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



36.8493, 0.3298, 0.2159



36.8493, 0.5113, 0.4061



36.8493, 0.2693, 0.4979



36.8493, 0.1431, 0.2053



# Rectangle

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



36.8493, 0.3298, 0.2159



36.8493, 0.4940, 0.3120



36.8493, 0.2693, 0.4979



36.8493, 0.1577, 0.3068

# Sweetspot

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



36.8510, 0.3298, 0.2159



77.7393, 0.3169, 0.2953



23.5539, 0.2210, 0.1685



16.0497, 0.3176, 0.2904



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.



36.8510, 0.3298, 0.2159



36.5517, 0.3337, 0.1985



34.0867, 0.3963, 0.2735



16.0033, 0.3153, 0.3080



12.8840, 0.3470, 0.1685



1.0795, 0.3432, 0.1664



# Inverse Universe

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



36.8510, 0.3298, 0.2159



36.5517, 0.3337, 0.1985



69.7457, 0.2702, 0.3955



16.0033, 0.3153, 0.3080



12.8840, 0.3470, 0.1685



1.0795, 0.3432, 0.1664



# Previews

## White Background



This preview shows how the Yxy color 36.8493, 0.3298, 0.2159 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

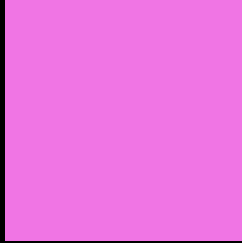
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.8493, 0.3298, 0.2159 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

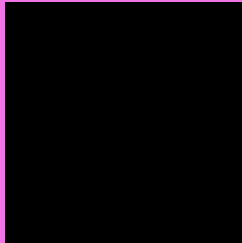
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.8493, 0.3298, 0.2159**

## Background



This preview shows how black text looks on a background with the Yxy color 36.8493, 0.3298, 0.2159.



This preview shows how white text looks on a background with the Yxy color 36.8493, 0.3298, 0.2159.

# 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

36.8493, 0.3298, 0.2159

### Protanopia

37.3769, 0.2252, 0.2112

### Deuteranopia

36.9529, 0.2565, 0.2502



## Tritanopia

36.5379, 0.4046, 0.3165

# Trichromacy



## Original Color

36.8493, 0.3298, 0.2159



## Protanomaly

35.2784, 0.2540, 0.2085



## Deuteranomaly

35.4023, 0.2790, 0.2324



## Tritanomaly

36.3275, 0.3776, 0.2764

# Monochromacy



## Original Color

36.8493, 0.3298, 0.2159



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

36.1914, 0.3191, 0.2765

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.8493, 0.3298, 0.2159 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, 117, 228)` looks like.

```
.text, #text, p{  
    color:rgb(240, 117, 228)  
}
```

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, 117, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 117, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8493, 0.3298, 0.2159 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, 117, 228) }
```

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

```
.border{ border-color:rgb(240, 117, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 117, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 117, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 117, 228);  
box-shadow:4px 4px 4px 4px rgb(240, 117,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8493, 0.3298, 0.2159 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 117, 228) }
```

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

```
.background{ background-color: rgb(240,  
117, 228) }
```

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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