

# Converting Colors

$Y_{xy}(35.6807, 0.2789, 0.2009)$

Have a look what the booklet for  
Yxy(35.6807, 0.2789, 0.2009)  
contains.

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# Color

**Yxy(35.6445, 0.2792, 0.2009)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CB83F7
RGB	203, 131, 247
RGB Percent	80%, 51%, 97%
CMY	0.2038, 0.4863, 0.0315
CMYK	0.18, 0.47, 0.00, 0.03
HSL	277°, 88%, 74%
HSV	277°, 47%, 97%
XYZ	49.5368, 35.6445, 92.2428
YIQ	165.7520, 5.6760, 51.3400

# Conversions

## Conversions Part 2

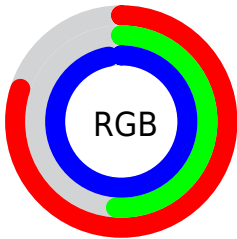
Format	Color
R <sub>Y</sub> B	203, 131, 247
Decimal	13337591
CIE Lab	66.25, 47.86, -47.44
CIE LCh	66, 67.388, 315.255
Yxy	35.6445, 0.2792, 0.2009
Android (android.graphics.Color)	4291527671 (0xFFCB83F7)
YUV	165.7520, 40.0553, 32.6665
Hunter-Lab	59.7030, 43.6248, -49.8126

# Details

The Yxy color **35.6445, 0.2792, 0.2009** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **77.2496, 0.3319, 0.4661**, and the grayscale version is **37.8098, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.5978, 0.3159, 0.2614**, and **15.4207, 0.2667, 0.1717** is the 20% darker color. If you saturate the color by 10%, you get **28.5098, 0.2695, 0.1741**, and if you desaturate by 10%, it is **44.4422, 0.2882, 0.2292**.

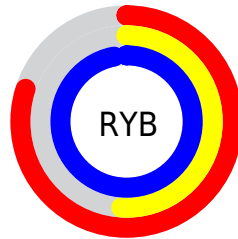
# Distribution



Red (80%)

Green (51%)

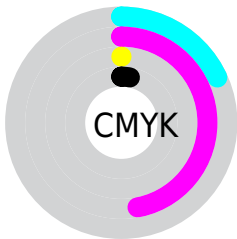
Blue (97%)



Red (80%)

Yellow (51%)

Blue (97%)

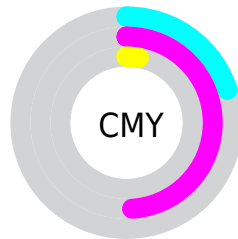


Cyan (18%)

Magenta (47%)

Yellow (0%)

Black (3%)



Cyan (20%)

Magenta (49%)


Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.6445, 0.2792, 0.2009 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 35.6445, 0.2792, 0.2009 by changing the saturation by 10% instead.





 35.6445, 0.2792,  
0.2009

 35.6445, 0.2792,  
0.2009


327.4040, 0.2982,  
0.2601

 24.1598, 0.2740,  
0.1878


 68.4830, 0.2865,  
0.2212

 15.4522, 0.2672,  
0.1718


 90.6056, 0.2891,  
0.2292

 9.1373, 0.2580,  
0.1522


 117.0429, 0.2913,  
0.2361

 4.8309, 0.2449,  
0.1279

148.1793, 0.2931,  
0.2421

 2.1484, 0.2255,  
0.0977

184.3992, 0.2947,  
0.2474

 0.6916, 0.1957,  
0.0599

226.0870, 0.2960,

 0.0000, 0.1500,

0.2521

0.0000

273.6272, 0.2972,  
0.2563

0.0000, 0.0000,  
0.0000

35.6445, 0.2792,  
0.2009

35.6445, 0.2792,  
0.2009

28.5098, 0.2695,  
0.1741

44.4422, 0.2882,  
0.2292

22.9183, 0.2592,  
0.1499

55.0028, 0.2962,  
0.2576

18.7404, 0.2488,  
0.1298

67.4232, 0.3032,  
0.2854

15.8228, 0.2387,  
0.1146

81.7921, 0.3091,  
0.3117

13.9701, 0.2291,  
0.1045

98.1922, 0.3141,  
0.3362

■ 13.5262, 0.2264,  
0.1021

■ 99.4938, 0.3174,  
0.3367

# Harmonies

## Analogous

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



35.6445, 0.2009, 0.1825



35.6445, 0.2792, 0.2009



35.6445, 0.3836, 0.2433

# Triad

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



35.6445, 0.2792, 0.2009



35.6445, 0.4831, 0.4411



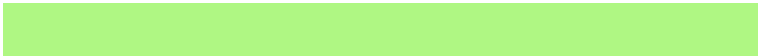
35.6445, 0.1687, 0.3259

# Complementary

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



35.6445, 0.2792, 0.2009



77.2496, 0.3319, 0.4661

# 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.



35.6445, 0.2290, 0.4432



35.6445, 0.2792, 0.2009



35.6445, 0.4099, 0.5031

# Square

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



35.6445, 0.2792, 0.2009



35.6445, 0.5127, 0.3701



35.6445, 0.3177, 0.5165



35.6445, 0.1463, 0.2368



# Rectangle

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



35.6445, 0.2792, 0.2009



35.6445, 0.4502, 0.2816



35.6445, 0.3177, 0.5165



35.6445, 0.1846, 0.3645

# Sweetspot

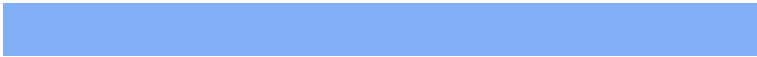
The Sweet Spot groups the original color and five complimentary colors.



35.6460, 0.2792, 0.2009



76.8243, 0.3050, 0.2933



42.3746, 0.2336, 0.2382



15.7598, 0.3037, 0.2875



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.



35.6460, 0.2792, 0.2009



31.2565, 0.2703, 0.1763



41.9084, 0.3302, 0.2260



16.4365, 0.3077, 0.3052



7.2393, 0.2279, 0.1029



0.6950, 0.2394, 0.1092



# Inverse Universe

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



39.0923, 0.3913, 0.2823



35.6566, 0.4155, 0.2745



73.3596, 0.2994, 0.4605



16.5864, 0.3234, 0.3201



10.9067, 0.5465, 0.2784

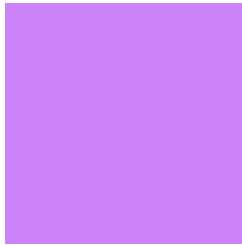


0.9779, 0.5126, 0.2597



# Previews

## White Background



This preview shows how the Yxy color 35.6445, 0.2792, 0.2009 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

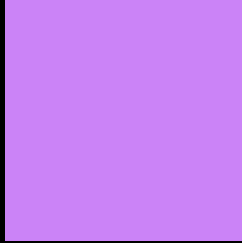
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.6445, 0.2792, 0.2009 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

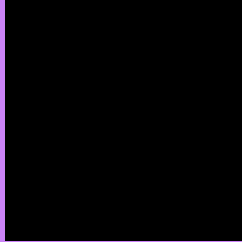
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 35.6445, 0.2792, 0.2009**

## Background



This preview shows how black text looks on a background with the Yxy color 35.6445, 0.2792, 0.2009.



This preview shows how white text looks on a background with the Yxy color 35.6445, 0.2792, 0.2009.

# 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

35.6445, 0.2792, 0.2009

### Protanopia

35.9588, 0.2217, 0.2066

### Deuteranopia

35.8525, 0.2293, 0.2228



## Tritanopia

35.6890, 0.3419, 0.3143

# Trichromacy



## Original Color

35.6445, 0.2792, 0.2009



## Protanomaly

34.9804, 0.2388, 0.2023



## Deuteranomaly

34.7383, 0.2440, 0.2116



## Tritanomaly

35.3989, 0.3176, 0.2670

# Monochromacy



## Original Color

35.6445, 0.2792, 0.2009



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

36.3063, 0.3002, 0.2736

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.6445, 0.2792, 0.2009 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(203, 131, 247)` looks like.

```
.text, #text, p{  
    color:rgb(203, 131, 247)  
}
```

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(203, 131, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 131, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 35.6445, 0.2792, 0.2009 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(203, 131, 247) }
```

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

```
.border{ border-color:rgb(203, 131, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 131, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 131, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 131, 247);  
box-shadow:4px 4px 4px 4px rgb(203, 131,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.6445, 0.2792, 0.2009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 131, 247) }
```

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

```
.background{ background-color: rgb(203,  
131, 247) }
```

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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