

# Converting Colors

$Y_{xy}(40.0090, 0.2469, 0.1575)$

Have a look what the booklet for  
Yxy(40.0090, 0.2469, 0.1575)  
contains.

|  |    |
|--|----|
| <b>Yxy(36.0334, 0.2815, 0.1920)</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(36.0334, 0.2815, 0.1920)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | D57DFF                     |
| RGB         | 213, 125, 255              |
| RGB Percent | 84%, 49%, 100%             |
| CMY         | 0.1647, 0.5098, 0.0000     |
| CMYK        | 0.16, 0.51, 0.00, 0.00     |
| HSL         | 281°, 100%, 75%            |
| HSV         | 281°, 51%, 100%            |
| XYZ         | 52.8302, 36.0334, 98.8103  |
| YIQ         | 166.1320, 10.7180, 59.0860 |

# Conversions

## Conversions Part 2

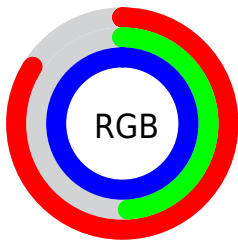
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| R <sub>YB</sub>                     | 213, 125, 255                 |
| Decimal                             | 13991423                      |
| CIE <sub>Lab</sub>                  | 66.55, 55.30, -51.31          |
| CIE <sub>LCh</sub>                  | 67, 75.442, 317.144           |
| Yxy                                 | 36.0334, 0.2815,<br>0.1920    |
| Android<br>(android.graphics.Color) | 4292181503<br>(0xFFD57DFF)    |
| YUV                                 | 166.1320, 43.8119,<br>41.1032 |
| Hunter-Lab                          | 60.0278, 52.0483,<br>-55.5763 |

# Details

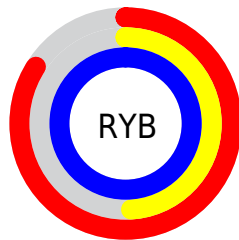
The Yxy color **36.0334, 0.2815, 0.1920** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **81.2142, 0.3282, 0.4812**, and the grayscale version is **37.9789, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1225, 0.3162, 0.2556**, and **15.7799, 0.2701, 0.1625** is the 20% darker color. If you saturate the color by 10%, you get **29.1838, 0.2731, 0.1672**, and if you desaturate by 10%, it is **44.6004, 0.2894, 0.2190**.

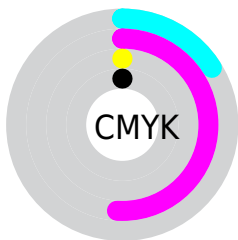
# Distribution



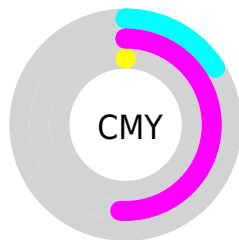
- Red (84%)
- Green (49%)
- Blue (100%)



- Red (84%)
- Yellow (49%)
- Blue (100%)



- Cyan (16%)
- Magenta (51%)
- Yellow (0%)
- Black (0%)




- Cyan (16%)
- Magenta (51%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.0334, 0.2815, 0.1920 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 36.0334, 0.2815, 0.1920 by changing the saturation by 10% instead.





 36.0334, 0.2815,  
0.1920


 36.0334, 0.2815,  
0.1920


329.1065, 0.2996,  
0.2542


 24.4600, 0.2765,  
0.1785


 69.0836, 0.2885,  
0.2131

 15.6752, 0.2699,  
0.1622


 91.3292, 0.2910,  
0.2215

 9.2946, 0.2609,  
0.1425


 117.9010, 0.2931,  
0.2287

 4.9338, 0.2483,  
0.1185

149.1834, 0.2948,  
0.2351

 2.2085, 0.2297,  
0.0892

185.5607, 0.2963,  
0.2407

 0.7246, 0.2011,  
0.0541

227.4174, 0.2976,


 0.0000, 0.1585,

0.2457


0.0000

275.1379, 0.2987,  
0.2502


 0.0000, 0.0000,  
0.0000


 36.0334, 0.2815,  
0.1920


 36.0334, 0.2815,  
0.1920


 29.1838, 0.2731,  
0.1672


 44.6004, 0.2894,  
0.2190


 23.9241, 0.2642,  
0.1456

 55.0045, 0.2964,  
0.2469

 20.1037, 0.2553,  
0.1285

 67.3510, 0.3026,  
0.2746

 17.5432, 0.2467,  
0.1164

 81.7379, 0.3079,  
0.3014

 16.0628, 0.2393,  
0.1092

 98.2566, 0.3123,  
0.3266

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



36.0334, 0.1944, 0.1706



36.0334, 0.2815, 0.1920



36.0334, 0.3985, 0.2386

# Triad

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



36.0334, 0.2815, 0.1920



36.0334, 0.4929, 0.4516



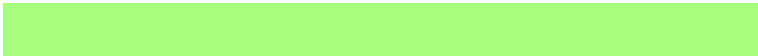
36.0334, 0.1523, 0.3160

# Complementary

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



36.0334, 0.2815, 0.1920



81.2142, 0.3282, 0.4812

# 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.



36.0334, 0.2136, 0.4501



36.0334, 0.2815, 0.1920



36.0334, 0.4092, 0.5225

# Square

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



36.0334, 0.2815, 0.1920



36.0334, 0.5327, 0.3742



36.0334, 0.3083, 0.5384



36.0334, 0.1321, 0.2217



# Rectangle

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



36.0334, 0.2815, 0.1920



36.0334, 0.4717, 0.2799



36.0334, 0.3083, 0.5384



36.0334, 0.1679, 0.3589

# Sweetspot

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



36.0324, 0.2815, 0.1920



75.7086, 0.3059, 0.2908



39.7058, 0.2249, 0.2201



15.5564, 0.3048, 0.2851



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.



36.0324, 0.2815, 0.1920



29.1739, 0.2730, 0.1671



41.8273, 0.3382, 0.2234



17.9891, 0.3086, 0.3052



8.4772, 0.2406, 0.1099



0.8844, 0.2499, 0.1150



# Inverse Universe

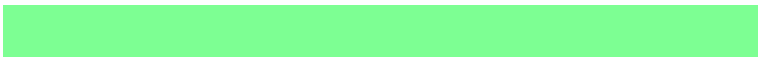
The Inverse Universe completely reimagines the original color for something new.



38.7145, 0.4104, 0.2860



32.4613, 0.4417, 0.2799



77.9753, 0.2955, 0.4660



18.0838, 0.3243, 0.3213



11.4541, 0.5685, 0.2906



1.1343, 0.5366, 0.2730



# Previews

## White Background



This preview shows how the Yxy color 36.0334, 0.2815, 0.1920 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

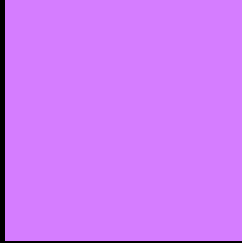
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.0334, 0.2815, 0.1920 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

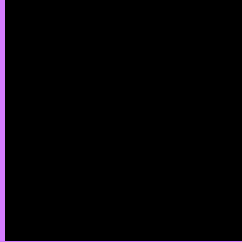
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.0334, 0.2815, 0.1920**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.0334, 0.2815, 0.1920.



This preview shows how white text looks on a background with the Yxy color 36.0334, 0.2815, 0.1920.

# 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

36.0334, 0.2815, 0.1920

### Protanopia

36.3762, 0.2225, 0.2080

### Deuteranopia

36.6110, 0.2237, 0.2178



## Tritanopia

35.7236, 0.3529, 0.3134

# Trichromacy



## Original Color

36.0334, 0.2815, 0.1920



## Protanomaly

35.2555, 0.2397, 0.1994



## Deuteranomaly

35.3300, 0.2402, 0.2046



## Tritanomaly

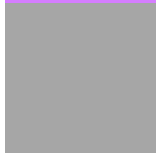
35.3928, 0.3239, 0.2614

# Monochromacy



## Original Color

36.0334, 0.2815, 0.1920



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

36.2777, 0.3014, 0.2680

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.0334, 0.2815, 0.1920 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(213, 125, 255)` looks like.

```
.text, #text, p{  
    color:rgb(213, 125, 255)  
}
```

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(213, 125, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 125, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 36.0334, 0.2815, 0.1920 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(213, 125, 255) }
```

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

```
.border{ border-color:rgb(213, 125, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 125, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 125, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 125, 255);  
box-shadow:4px 4px 4px 4px rgb(213, 125,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.0334, 0.2815, 0.1920 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 125, 255) }
```

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

```
.background{ background-color: rgb(213,  
125, 255) }
```

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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