

# Converting Colors

$Y_{xy}(35.6479, 0.2829, 0.1903)$

Have a look what the booklet for  
Yxy(35.6479, 0.2829, 0.1903)  
contains.

<b>Yxy(35.5861, 0.2831, 0.1900)</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(35.5861, 0.2831, 0.1900)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D77AFF
RGB	215, 122, 255
RGB Percent	84%, 48%, 100%
CMY	0.1571, 0.5214, 0.0000
CMYK	0.16, 0.52, 0.00, 0.00
HSL	282°, 100%, 74%
HSV	282°, 52%, 100%
XYZ	53.0233, 35.5861, 98.6859
YIQ	164.9690, 12.7350, 61.0790

# Conversions

## Conversions Part 2

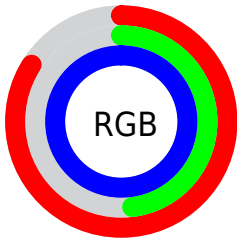
Format	Color
R <sub>Y</sub> B	215, 122, 255
Decimal	14121727
CIE Lab	66.20, 57.28, -51.82
CIE LCh	66, 77.246, 317.865
Yxy	35.5861, 0.2831, 0.1900
Android (android.graphics.Color)	4292311807 (0xFFD77AFF)
YUV	164.9690, 44.3853, 43.8772
Hunter-Lab	59.6541, 54.2643, -56.3257

# Details

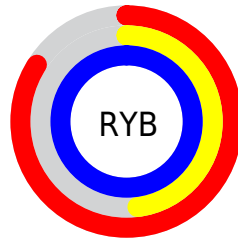
The Yxy color **35.5861, 0.2831, 0.1900** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **80.6161, 0.3266, 0.4858**, and the grayscale version is **37.3924, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.9243, 0.3163, 0.2527**, and **15.3796, 0.2710, 0.1593** is the 20% darker color. If you saturate the color by 10%, you get **28.9880, 0.2752, 0.1659**, and if you desaturate by 10%, it is **43.8836, 0.2904, 0.2164**.

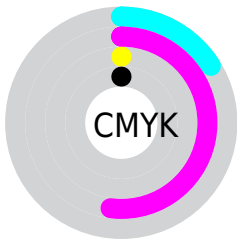
# Distribution



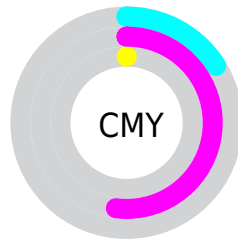
- Red (84%)
- Green (48%)
- Blue (100%)



- Red (84%)
- Yellow (48%)
- Blue (100%)



- Cyan (16%)
- Magenta (52%)
- Yellow (0%)
- Black (0%)




- Cyan (16%)
- Magenta (52%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.5861, 0.2831, 0.1900 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 35.5861, 0.2831, 0.1900 by changing the saturation by 10% instead.





 35.5861, 0.2831,  
0.1900


 35.5861, 0.2831,  
0.1900


327.1478, 0.3006,  
0.2530


 24.1147, 0.2782,  
0.1763


 68.3927, 0.2899,  
0.2114

 15.4187, 0.2718,  
0.1600


 90.4968, 0.2923,  
0.2198

 9.1138, 0.2630,  
0.1401


 116.9138, 0.2943,  
0.2272

 4.8155, 0.2505,  
0.1159

148.0282, 0.2960,  
0.2336

 2.1394, 0.2320,  
0.0866

184.2245, 0.2974,  
0.2393

 0.6867, 0.2037,  
0.0514

225.8869, 0.2986,

 0.0000, 0.1608,

0.2444

0.0000

273.3999, 0.2997,  
0.2489

0.0000, 0.0000,  
0.0000

35.5861, 0.2831,  
0.1900

35.5861, 0.2831,  
0.1900

28.9880, 0.2752,  
0.1659

43.8836, 0.2904,  
0.2164

23.9539, 0.2670,  
0.1453

53.9951, 0.2970,  
0.2440

20.3325, 0.2587,  
0.1291

66.0288, 0.3028,  
0.2716

17.9402, 0.2506,  
0.1179

80.0836, 0.3078,  
0.2984

16.7081, 0.2445,  
0.1121

96.2513, 0.3119,  
0.3238

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.



35.5861, 0.1934, 0.1675



35.5861, 0.2831, 0.1900



35.5861, 0.4036, 0.2378

# Triad

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



35.5861, 0.2831, 0.1900



35.5861, 0.4946, 0.4549



35.5861, 0.1476, 0.3121

# Complementary

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



35.5861, 0.2831, 0.1900



80.6161, 0.3266, 0.4858

# 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.



35.5861, 0.2087, 0.4507



35.5861, 0.2831, 0.1900



35.5861, 0.4078, 0.5281

# Square

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



35.5861, 0.2831, 0.1900



35.5861, 0.5378, 0.3757



35.5861, 0.3047, 0.5441



35.5861, 0.1284, 0.2171



# Rectangle

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



35.5861, 0.2831, 0.1900



35.5861, 0.4784, 0.2800



35.5861, 0.3047, 0.5441



35.5861, 0.1631, 0.3560

# Sweetspot

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



35.5872, 0.2831, 0.1900



74.4178, 0.3060, 0.2882



37.9612, 0.2222, 0.2142



15.3083, 0.3049, 0.2827



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.



35.5872, 0.2831, 0.1900



28.4975, 0.2745, 0.1640



40.9358, 0.3411, 0.2232



18.0097, 0.3089, 0.3052



8.8119, 0.2458, 0.1128



0.9150, 0.2546, 0.1176



# Inverse Universe

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



37.7991, 0.4173, 0.2882



31.3030, 0.4532, 0.2825



77.7482, 0.2943, 0.4668



18.0771, 0.3247, 0.3219



11.4103, 0.5764, 0.2949

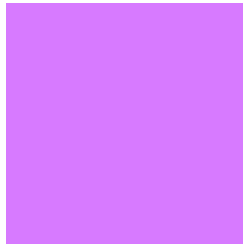


1.1293, 0.5444, 0.2773



# Previews

## White Background



This preview shows how the Yxy color 35.5861, 0.2831, 0.1900 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

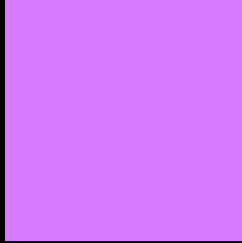
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.5861, 0.2831, 0.1900 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

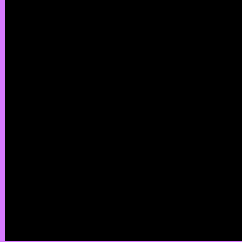
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 35.5861, 0.2831, 0.1900**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.5861, 0.2831, 0.1900.



This preview shows how white text looks on a background with the Yxy color 35.5861, 0.2831, 0.1900.

# 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

35.5861, 0.2831, 0.1900

### Protanopia

35.8847, 0.2212, 0.2064

### Deuteranopia

36.1186, 0.2224, 0.2162



## Tritanopia

35.3058, 0.3576, 0.3135

# Trichromacy



## Original Color

35.5861, 0.2831, 0.1900



## Protanomaly

34.5387, 0.2387, 0.1968



## Deuteranomaly

34.6048, 0.2391, 0.2019



## Tritanomaly

34.7207, 0.3282, 0.2604

# Monochromacy



## Original Color

35.5861, 0.2831, 0.1900



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

35.6394, 0.3014, 0.2654

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.5861, 0.2831, 0.1900 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(215, 122, 255)` looks like.

```
.text, #text, p{  
    color:rgb(215, 122, 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(215, 122, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 122, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 35.5861, 0.2831, 0.1900 is called "border". The border property can be set on classes, ids or directly on the HTML element.

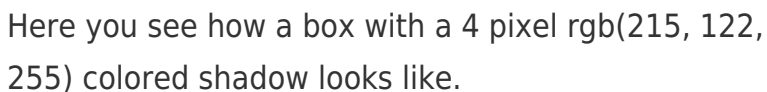
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(215, 122, 255) }
```

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

```
.border{ border-color:rgb(215, 122, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(215, 122, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(215, 122, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(215, 122, 255); box-shadow:4px 4px 4px 4px rgb(215, 122, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.5861, 0.2831, 0.1900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 122, 255) }
```

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

```
.background{ background-color: rgb(215,  
122, 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](#).

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