

# Converting Colors

$Y_{xy}(20.0576, 0.3459, 0.1775)$

Have a look what the booklet for  
Yxy(20.0576, 0.3459, 0.1775)  
contains.

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# Color

**Yxy(20.0355, 0.3450, 0.1772)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D827C4
RGB	216, 39, 196
RGB Percent	85%, 15%, 77%
CMY	0.1529, 0.8470, 0.2315
CMYK	0.00, 0.82, 0.09, 0.15
HSL	307°, 69%, 50%
HSV	307°, 82%, 85%
XYZ	39.0082, 20.0355, 54.0235
YIQ	109.8210, 55.0950, 86.3510

# Conversions

## Conversions Part 2

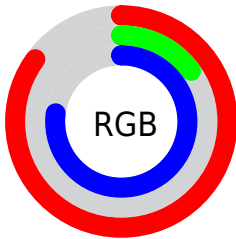
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	216, 39, 196
Decimal	14165956
CIE <sub>Lab</sub>	51.88, 79.00, -41.30
CIE <sub>LCh</sub>	52, 89.143, 332.398
Y <sub>xy</sub>	20.0355, 0.3450, 0.1772
Android (android.graphics.Color)	4292356036 (0xFFD827C4)
YUV	109.8210, 42.4862, 93.1190
Hunter-Lab	44.7610, 77.2267, -40.2262

# Details

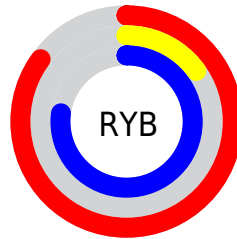
The Yxy color **20.0355, 0.3450, 0.1772** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light washed magenta. A complement of this color would be **49.8641, 0.2961, 0.5638**, and the grayscale version is **15.4047, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.0770, 0.3209, 0.1949**, and **9.1211, 0.3462, 0.1681** is the 20% darker color. If you saturate the color by 10%, you get **18.8882, 0.3490, 0.1725**, and if you desaturate by 10%, it is **21.9930, 0.3407, 0.1864**.

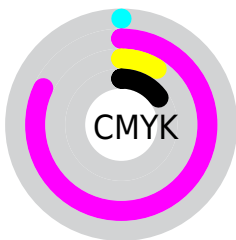
# Distribution



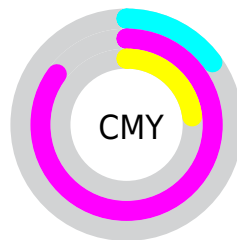
- Red (85%)
- Green (15%)
- Blue (77%)



- Red (85%)
- Yellow (15%)
- Blue (77%)



- Cyan (0%)
- Magenta (82%)
- Yellow (9%)
- Black (15%)




- Cyan (15%)
- Magenta (85%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.0355, 0.3450, 0.1772 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 20.0355, 0.3450, 0.1772 by changing the saturation by 10% instead.




 20.0355, 0.3450,  
0.1772


 20.0355, 0.3450,  
0.1772


252.1072, 0.3316,  
0.2509

 12.4209, 0.3473,  
0.1601


 43.4767, 0.3409,  
0.2032


 7.0310, 0.3495,  
0.1391

 60.0720, 0.3391,  
0.2132

 3.4815, 0.3512,  
0.1131


 80.4297, 0.3375,  
0.2218

 1.3880, 0.3511,  
0.0811

 104.9341, 0.3361,  
0.2292

 0.2078, 0.3522,  
0.0253

 133.9697, 0.3348,  
0.2357

 0.0000, 0.3275,  
0.0000

167.9208, 0.3336,

 0.0000, 0.0297,

0.2414

0.0000

207.1719, 0.3326,  
0.2464

■ 0.0000, 0.0000,  
0.0000

■ 20.0355, 0.3450,  
0.1772

■ 20.0355, 0.3450,  
0.1772

■ 18.8882, 0.3490,  
0.1725

■ 21.9930, 0.3407,  
0.1864

■ 18.3869, 0.3520,  
0.1713

■ 24.8774, 0.3363,  
0.1998

■ 28.7896, 0.3319,  
0.2168

■ 33.8164, 0.3276,  
0.2366

■ 40.0356, 0.3235,  
0.2581

■ 47.5180, 0.3197,  
0.2805

■ 56.3287, 0.3163,  
0.3030

■ 66.5287, 0.3133,  
0.3249

■ 78.1748, 0.3106,  
0.3457

# Harmonies

## Analogous

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



20.0355, 0.2042, 0.1365



20.0355, 0.3450, 0.1772



20.0355, 0.5148, 0.2440

# Triad

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



20.0355, 0.3450, 0.1772



20.0355, 0.4774, 0.5219



20.0355, 0.0879, 0.2258

# Complementary

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



20.0355, 0.3450, 0.1772



49.8641, 0.2961, 0.5638

# 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.



20.0355, 0.1271, 0.3974



20.0355, 0.3450, 0.1772



20.0355, 0.3467, 0.6225

# Square

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



20.0355, 0.3450, 0.1772



20.0355, 0.5768, 0.4083



20.0355, 0.2221, 0.6007



20.0355, 0.0896, 0.1488



# Rectangle

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



20.0355, 0.3450, 0.1772



20.0355, 0.5902, 0.2949



20.0355, 0.2221, 0.6007



20.0355, 0.0954, 0.2709

# Sweetspot

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



20.0365, 0.3450, 0.1772



65.3948, 0.3209, 0.2731



7.2712, 0.1687, 0.0829



13.1713, 0.3222, 0.2652



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.



20.0365, 0.3450, 0.1772



26.9014, 0.3516, 0.1716



17.1735, 0.4873, 0.2628



12.6074, 0.3155, 0.3086



10.8923, 0.3515, 0.1710



0.6640, 0.3455, 0.1677



# Inverse Universe

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



20.0365, 0.3450, 0.1772



26.9014, 0.3516, 0.1716



51.5988, 0.2601, 0.4397



12.6074, 0.3155, 0.3086



10.8923, 0.3515, 0.1710



0.6640, 0.3455, 0.1677



# Previews

## White Background



This preview shows how the Yxy color 20.0355, 0.3450, 0.1772 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

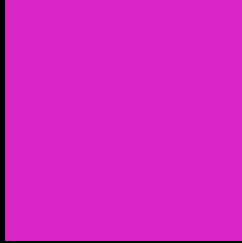
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 20.0355, 0.3450, 0.1772 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

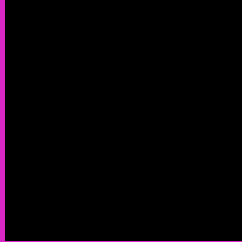
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.0355, 0.3450, 0.1772**

## Background



This preview shows how black text looks on a background with the Yxy color 20.0355, 0.3450, 0.1772.



This preview shows how white text looks on a background with the Yxy color 20.0355, 0.3450, 0.1772.

# 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

20.0355, 0.3450, 0.1772

### Protanopia

20.6529, 0.1735, 0.1447

### Deuteranopia

20.4595, 0.2319, 0.2271



## Tritanopia

19.8869, 0.4877, 0.3225

# Trichromacy



## Original Color

20.0355, 0.3450, 0.1772



## Protanomaly

15.0849, 0.1873, 0.1295



## Deuteranomaly

17.0783, 0.2623, 0.1873



## Tritanomaly

19.1281, 0.4366, 0.2594

# Monochromacy



## Original Color

20.0355, 0.3450, 0.1772



## Achromatopsia

15.5926, 0.3127, 0.3290



## Achromatomaly

14.6533, 0.3287, 0.2364

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.0355, 0.3450, 0.1772 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(216, 39, 196)` looks like.

```
.text, #text, p{  
    color:rgb(216, 39, 196)  
}
```

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(216, 39, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 39, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 20.0355, 0.3450, 0.1772 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(216, 39, 196) }
```

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

```
.border{ border-color:rgb(216, 39, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 39, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 39, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 39, 196);  
box-shadow:4px 4px 4px 4px rgb(216, 39,  
196) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 20.0355, 0.3450, 0.1772$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 39, 196) }
```

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

```
.background{ background-color: rgb(216, 39,  
196) }
```

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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