

# Converting Colors

$Y_{xy}(18.7092, 0.3205, 0.1627)$

Have a look what the booklet for  
Yxy(18.7092, 0.3205, 0.1627)  
contains.

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**Color**

**Yxy(18.7100, 0.3205, 0.1627)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD25CD
RGB	205, 37, 205
RGB Percent	80%, 15%, 80%
CMY	0.1961, 0.8548, 0.1961
CMYK	0.00, 0.82, 0.00, 0.20
HSL	300°, 69%, 47%
HSV	300°, 82%, 80%
XYZ	36.8565, 18.7100, 59.4304
YIQ	106.3840, 46.2000, 87.8640

# Conversions

## Conversions Part 2

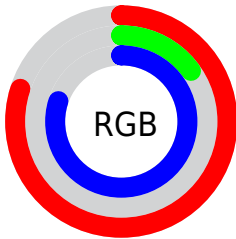
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	205, 37, 205
Decimal	13444557
CIE Lab	50.35, 78.64, -49.06
CIE LCh	50, 92.683, 328.041
Yxy	18.7100, 0.3205, 0.1627
Android (android.graphics.Color)	4291634637 (0xFFCD25CD)
YUV	106.3840, 48.6177, 86.4862
Hunter-Lab	43.2551, 76.3989, -51.1831

# Details

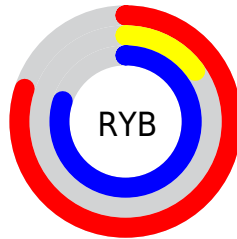
The Yxy color **18.7100, 0.3205, 0.1627** is a dark color, and the websafe version is hex **CC33CC**. The color can be described as middle muted magenta. A complement of this color would be **44.1936, 0.3009, 0.5800**, and the grayscale version is **14.3823, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.5832, 0.3192, 0.1914**, and **8.3130, 0.3144, 0.1506** is the 20% darker color. If you saturate the color by 10%, you get **17.7722, 0.3208, 0.1567**, and if you desaturate by 10%, it is **20.3650, 0.3200, 0.1729**.

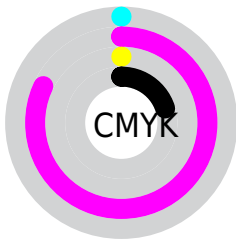
# Distribution



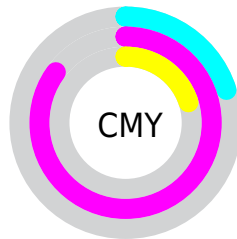
- Red (80%)
- Green (15%)
- Blue (80%)



- Red (80%)
- Yellow (15%)
- Blue (80%)



- Cyan (0%)
- Magenta (82%)
- Yellow (0%)
- Black (20%)




- Cyan (20%)
- Magenta (85%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.7100, 0.3205, 0.1627 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 18.7100, 0.3205, 0.1627 by changing the saturation by 10% instead.





 18.7100, 0.3205,  
0.1627

 18.7100, 0.3205,  
0.1627


244.8431, 0.3211,  
0.2426


 11.4609, 0.3188,  
0.1446


 41.2435, 0.3219,  
0.1905


 6.3778, 0.3157,  
0.1227


 57.2967, 0.3220,  
0.2014

 3.0761, 0.3099,  
0.0962


 77.0534, 0.3220,  
0.2107

 1.1716, 0.2991,  
0.0649

 100.8980, 0.3219,  
0.2188

 0.0383, 0.2854,  
0.0043

 129.2148, 0.3218,  
0.2259

 0.0000, 0.2355,  
0.0000

162.3884, 0.3216,

 0.0000, 0.0000,

0.2321

0.0000

200.8030, 0.3214,  
0.2377

■ 18.7100, 0.3205,  
0.1627

■ 18.7100, 0.3205,  
0.1627

■ 17.7722, 0.3208,  
0.1567

■ 20.3650, 0.3200,  
0.1729

■ 17.3856, 0.3209,  
0.1541

■ 22.8393, 0.3193,  
0.1874

■ 26.2214, 0.3185,  
0.2056

■ 30.5876, 0.3175,  
0.2269

■ 36.0063, 0.3164,  
0.2503

■ 42.5397, 0.3152,  
0.2750

■ 50.2452, 0.3141,  
0.2999

■ 59.1761, 0.3129,  
0.3244

■ 69.3828, 0.3118,  
0.3479

# Harmonies

## Analogous

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



18.7100, 0.1830, 0.1258



18.7100, 0.3205, 0.1627



18.7100, 0.5027, 0.2279

# Triad

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



18.7100, 0.3205, 0.1627



18.7100, 0.4956, 0.5044



18.7100, 0.0821, 0.2374

# Complementary

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



18.7100, 0.3205, 0.1627



44.1936, 0.3009, 0.5800

# 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.



18.7100, 0.1280, 0.4358



18.7100, 0.3205, 0.1627



18.7100, 0.3623, 0.6260

# Square

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



18.7100, 0.3205, 0.1627



18.7100, 0.5973, 0.3908



18.7100, 0.2315, 0.6389



18.7100, 0.0798, 0.1477



# Rectangle

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



18.7100, 0.3205, 0.1627



18.7100, 0.5935, 0.2789



18.7100, 0.2315, 0.6389



18.7100, 0.0913, 0.2902

# Sweetspot

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



18.7109, 0.3205, 0.1627



65.8497, 0.3156, 0.2666



6.3078, 0.1625, 0.0817



13.2821, 0.3161, 0.2578



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.



18.7109, 0.3205, 0.1627



28.5866, 0.3209, 0.1546



15.7554, 0.4484, 0.2397



11.4037, 0.3138, 0.3062



10.8224, 0.3209, 0.1541



0.5583, 0.3209, 0.1541



# Inverse Universe

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



14.4387, 0.5980, 0.3298



21.3819, 0.6377, 0.3300



45.3728, 0.2700, 0.4734



11.2137, 0.3290, 0.3290



8.0800, 0.6401, 0.3300



0.4168, 0.6400, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 18.7100, 0.3205, 0.1627 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

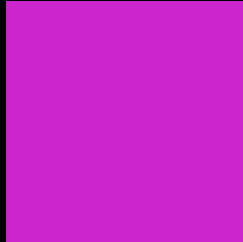
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 18.7100, 0.3205, 0.1627 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

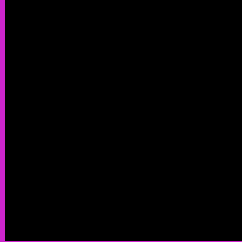
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.7100, 0.3205, 0.1627**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.7100, 0.3205, 0.1627.



This preview shows how white text looks on a background with the Yxy color 18.7100, 0.3205, 0.1627.

# 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

18.7100, 0.3205, 0.1627

### Protanopia

19.1446, 0.1737, 0.1454

### Deuteranopia

19.1447, 0.2134, 0.2084



## Tritanopia

18.7657, 0.4672, 0.3217

# Trichromacy



## Original Color

18.7100, 0.3205, 0.1627



## Protanomaly

14.0818, 0.1851, 0.1257



## Deuteranomaly

15.6286, 0.2387, 0.1692



## Tritanomaly

17.6980, 0.4126, 0.2490

# Monochromacy



## Original Color

18.7100, 0.3205, 0.1627



## Achromatopsia

14.4128, 0.3127, 0.3290



## Achromatomaly

13.5886, 0.3175, 0.2273

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.7100, 0.3205, 0.1627 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(205, 37, 205)` looks like.

```
.text, #text, p{  
    color:rgb(205, 37, 205)  
}
```

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(205, 37, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 37, 205) }
```

## Border

The CSS property to change the border of an element to Yxy 18.7100, 0.3205, 0.1627 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(205, 37, 205) }
```

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

```
.border{ border-color:rgb(205, 37, 205) }
```

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

Here you see how a box with a 4 pixel rgb(205, 37, 205) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 37, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 37, 205);  
box-shadow:4px 4px 4px 4px rgb(205, 37,  
205) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.7100, 0.3205, 0.1627 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 37, 205) }
```

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

```
.background{ background-color: rgb(205, 37,  
205) }
```

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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