

# Converting Colors

$Y_{xy}(21.0257, 0.4285, 0.2134)$

Have a look what the booklet for  
Yxy(21.0257, 0.4285, 0.2134)  
contains.

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**Color**

**Yxy(21.0633, 0.4295, 0.2140)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F000A0
RGB	240, 0, 160
RGB Percent	94%, 0%, 63%
CMY	0.0589, 0.9991, 0.3726
CMYK	0.00, 1.00, 0.33, 0.06
HSL	320°, 100%, 47%
HSV	320°, 100%, 94%
XYZ	42.2742, 21.0633, 35.0891
YIQ	90.0000, 91.6800, 100.6400

# Conversions

## Conversions Part 2

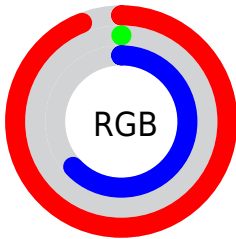
<b>Format</b>	<b>Color</b>
<b>RYB</b>	240, 0, 160
Decimal	15728800
CIELab	53.02, 84.17, -18.12
CIELCh	53, 86.099, 347.850
Yxy	21.0633, 0.4295, 0.2140
Android (android.graphics.Color)	4293918880 (0xFFFF00A0)
YUV	90.0000, 34.5100, 131.5500
Hunter-Lab	45.8948, 84.1027, -13.2042

# Details

The Yxy color **21.0633, 0.4295, 0.2140** is a dark color, and the websafe version is hex **FF0099**. The color can be described as middle saturated rose. A complement of this color would be **62.8923, 0.2872, 0.5538**, and the grayscale version is **10.1613, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.9017, 0.3600, 0.2171**, and **10.5477, 0.4508, 0.2257** is the 20% darker color. If you saturate the color by 10%, you get **21.0565, 0.4296, 0.2140**, and if you desaturate by 10%, it is **22.0117, 0.4152, 0.2109**.

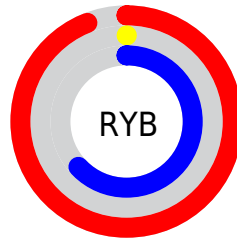
# Distribution



Red (94%)

Green (0%)

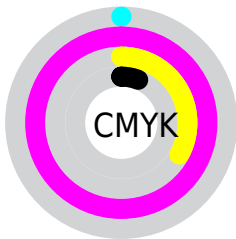
Blue (63%)



Red (94%)

Yellow (0%)

Blue (63%)

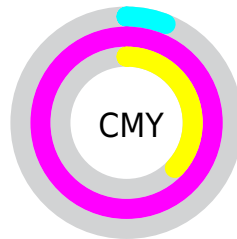


Cyan (0%)

Magenta (100%)

Yellow (33%)

Black (6%)



Cyan (6%)

Magenta (100%)


Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.0633, 0.4295, 0.2140 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 21.0633, 0.4295, 0.2140 by changing the saturation by 10% instead.





 21.0633, 0.4295,  
0.2140


 21.0633, 0.4295,  
0.2140


257.6147, 0.3671,  
0.2729

 13.1703, 0.4462,  
0.1992


 45.1929, 0.4059,  
0.2356


 7.5459, 0.4684,  
0.1802


 62.1982, 0.3973,  
0.2436


 3.8058, 0.4987,  
0.1553


 83.0097, 0.3902,  
0.2504

 1.5655, 0.5425,  
0.1219

 108.0119, 0.3842,  
0.2562

 0.3342, 0.6208,  
0.0595

 137.5891, 0.3790,  
0.2612

 0.0000, 0.7690,  
0.0000

 172.1257, 0.3745,

 0.0000, 1.0000,

0.2656

0.0000

212.0061, 0.3706,  
0.2695

■ 0.0000, 0.0000,  
0.0000

■ 21.0633, 0.4295,  
0.2140

■ 21.0633, 0.4295,  
0.2140

■ 21.0565, 0.4296,  
0.2140

■ 22.0117, 0.4152,  
0.2109

■ 23.7894, 0.4005,  
0.2125

■ 26.6475, 0.3859,  
0.2192

■ 30.7359, 0.3717,  
0.2301

■ 36.1807, 0.3585,  
0.2443

■ 43.0923, 0.3466,  
0.2605

■ 51.5695, 0.3361,  
0.2779

■ 61.7027, 0.3270,  
0.2954

■ 73.5752, 0.3192,  
0.3127

# Harmonies

## Analogous

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



21.0633, 0.2715, 0.1594



21.0633, 0.4295, 0.2140



21.0633, 0.5659, 0.2869

# Triad

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



21.0633, 0.4295, 0.2140



21.0633, 0.4109, 0.5712



21.0633, 0.0913, 0.1836

# Complementary

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



21.0633, 0.4295, 0.2140



62.8923, 0.2872, 0.5538

# 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.



21.0633, 0.1080, 0.2987



21.0633, 0.4295, 0.2140



21.0633, 0.2863, 0.6216

# Square

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



21.0633, 0.4295, 0.2140



21.0633, 0.5257, 0.4632



21.0633, 0.1740, 0.4966



21.0633, 0.1092, 0.1388



# Rectangle

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



21.0633, 0.4295, 0.2140



21.0633, 0.5975, 0.3390



21.0633, 0.1740, 0.4966



21.0633, 0.0926, 0.2121

# Sweetspot

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



21.0645, 0.4295, 0.2140



58.9838, 0.3363, 0.2775



8.0073, 0.1731, 0.0728



11.6989, 0.3405, 0.2701



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.



21.0645, 0.4295, 0.2140



24.1591, 0.4301, 0.2143



18.6814, 0.6185, 0.3182



15.9365, 0.3189, 0.3134



11.5546, 0.4274, 0.2128



0.9796, 0.4098, 0.2031



# Inverse Universe

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



21.0645, 0.4295, 0.2140



24.1591, 0.4301, 0.2143



66.4809, 0.2399, 0.3835



15.9365, 0.3189, 0.3134



11.5546, 0.4274, 0.2128



0.9796, 0.4098, 0.2031



# Previews

## White Background



This preview shows how the Yxy color 21.0633, 0.4295, 0.2140 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 21.0633, 0.4295, 0.2140 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

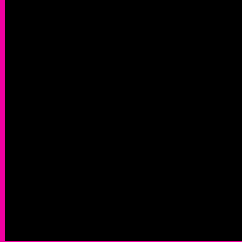
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.0633, 0.4295, 0.2140**

## Background



This preview shows how black text looks on a background with the Yxy color 21.0633, 0.4295, 0.2140.



This preview shows how white text looks on a background with the Yxy color 21.0633, 0.4295, 0.2140.

# 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

21.0633, 0.4295, 0.2140

### Protanopia

21.9866, 0.1996, 0.1777

### Deuteranopia

21.5830, 0.2929, 0.2878



## Tritanopia

21.4408, 0.5603, 0.3274

# Trichromacy



## Original Color

21.0633, 0.4295, 0.2140



## Protanomaly

15.5002, 0.2460, 0.1572



## Deuteranomaly

16.5833, 0.3415, 0.2247



## Tritanomaly

20.2706, 0.5236, 0.2819

# Monochromacy



## Original Color

21.0633, 0.4295, 0.2140



## Achromatopsia

10.2242, 0.3127, 0.3290



## Achromatomaly

10.1838, 0.3711, 0.2328

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.0633, 0.4295, 0.2140 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(240, 0, 160)` looks like.

```
.text, #text, p{  
  color:rgb(240, 0, 160)  
}
```

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(240, 0, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 0, 160) }
```

## Border

The CSS property to change the border of an element to Yxy 21.0633, 0.4295, 0.2140 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(240, 0, 160) }
```

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

```
.border{ border-color:rgb(240, 0, 160) }
```

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

Here you see how a box with a 4 pixel rgb(240, 0, 160) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 0, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 0, 160);  
box-shadow:4px 4px 4px 4px rgb(240, 0,  
160) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.0633, 0.4295, 0.2140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 0, 160) }
```

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

```
.background{ background-color: rgb(240, 0,  
160) }
```

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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