

# Converting Colors

$Y_{xy}(21.8742, 0.3174, 0.1560)$

Have a look what the booklet for  
Yxy(21.8742, 0.3174, 0.1560)  
contains.

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**Color**

**Yxy(21.8742, 0.3174, 0.1560)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF19E2
RGB	223, 25, 226
RGB Percent	87%, 10%, 89%
CMY	0.1255, 0.9018, 0.1137
CMYK	0.01, 0.89, 0.00, 0.11
HSL	299°, 80%, 49%
HSV	299°, 89%, 89%
XYZ	44.5056, 21.8742, 73.8394
YIQ	107.1160, 53.4870, 104.4870

# Conversions

## Conversions Part 2

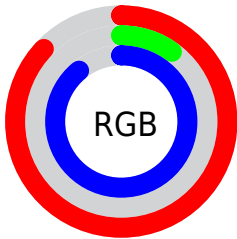
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	223, 25, 226
Decimal	14621154
CIE Lab	53.89, 87.00, -55.21
CIE LCh	54, 103.040, 327.602
Yxy	21.8742, 0.3174, 0.1560
Android (android.graphics.Color)	4292811234 (0xFFDF19E2)
YUV	107.1160, 58.6098, 101.6303
Hunter-Lab	46.7699, 88.0110, -60.8671

# Details

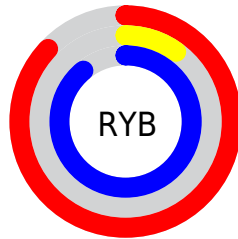
The Yxy color **21.8742, 0.3174, 0.1560** is a light color, and the websafe version is hex **CC00CC**. The color can be described as light washed magenta. A complement of this color would be **54.7198, 0.3009, 0.5910**, and the grayscale version is **14.5667, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.3806, 0.3192, 0.1907**, and **10.6888, 0.3107, 0.1485** is the 20% darker color. If you saturate the color by 10%, you get **21.1772, 0.3172, 0.1524**, and if you desaturate by 10%, it is **23.3171, 0.3175, 0.1634**.

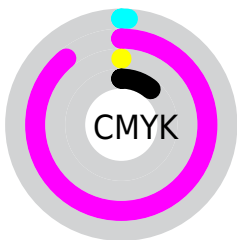
# Distribution



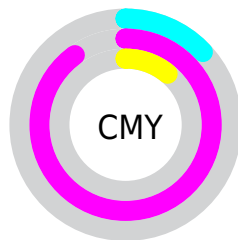
- Red (87%)
- Green (10%)
- Blue (89%)



- Red (87%)
- Yellow (10%)
- Blue (89%)



- Cyan (1%)
- Magenta (89%)
- Yellow (0%)
- Black (11%)




- Cyan (13%)
- Magenta (90%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8742, 0.3174, 0.1560 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 21.8742, 0.3174, 0.1560 by changing the saturation by 10% instead.





 21.8742, 0.3174,  
0.1560


 21.8742, 0.3174,  
0.1560


261.8886, 0.3202,  
0.2358


 13.7645, 0.3152,  
0.1388


 46.5380, 0.3196,  
0.1831


 7.9570, 0.3116,  
0.1183


 63.8609, 0.3200,  
0.1939


 4.0675, 0.3055,  
0.0941


 85.0236, 0.3203,  
0.2032

 1.7114, 0.2951,  
0.0660

 110.4105, 0.3204,  
0.2114

 0.4310, 0.2778,  
0.0305

 140.4061, 0.3204,  
0.2186

 0.0000, 0.2439,  
0.0000

175.3947, 0.3204,

 0.0000, 0.1591,

0.2250

0.0000


215.7608, 0.3203,  
0.2307


 0.0000, 0.0000,  
0.0000

 21.8742, 0.3174,  
0.1560

 21.8742, 0.3174,  
0.1560


 21.1772, 0.3172,  
0.1524


 23.3171, 0.3175,  
0.1634

 21.1184, 0.3171,  
0.1521

 25.6974, 0.3174,  
0.1751

 29.1424, 0.3171,  
0.1910

 33.7589, 0.3166,  
0.2106

 39.6406, 0.3160,  
0.2329

■ 46.8720, 0.3152,  
0.2571

■ 55.5301, 0.3144,  
0.2821

■ 65.6860, 0.3135,  
0.3072

■ 77.4065, 0.3126,  
0.3316

# Harmonies

## Analogous

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



21.8742, 0.1761, 0.1192



21.8742, 0.3174, 0.1560



21.8742, 0.5095, 0.2219

# Triad

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



21.8742, 0.3174, 0.1560



21.8742, 0.4980, 0.5020



21.8742, 0.0751, 0.2334

# Complementary

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



21.8742, 0.3174, 0.1560



54.7198, 0.3009, 0.5910

# 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.



21.8742, 0.1206, 0.4450



21.8742, 0.3174, 0.1560



21.8742, 0.3604, 0.6363

# Square

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



21.8742, 0.3174, 0.1560



21.8742, 0.6071, 0.3856



21.8742, 0.2257, 0.6600



21.8742, 0.0732, 0.1413



# Rectangle

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



21.8742, 0.3174, 0.1560



21.8742, 0.6055, 0.2732



21.8742, 0.2257, 0.6600



21.8742, 0.0841, 0.2889

# Sweetspot

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



21.8752, 0.3174, 0.1560



63.4649, 0.3151, 0.2614



6.5482, 0.1556, 0.0700



12.8165, 0.3154, 0.2529



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.



21.8752, 0.3174, 0.1560



27.7589, 0.3171, 0.1520



18.4501, 0.4661, 0.2411



13.9246, 0.3136, 0.3059



12.0511, 0.3172, 0.1521



0.8387, 0.3178, 0.1524



# Inverse Universe

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



16.9525, 0.6191, 0.3287



21.2684, 0.6390, 0.3294



56.0184, 0.2712, 0.4880



13.7039, 0.3290, 0.3287



9.2301, 0.6384, 0.3290



0.6410, 0.6334, 0.3263



# Previews

## White Background



This preview shows how the Yxy color 21.8742, 0.3174, 0.1560 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

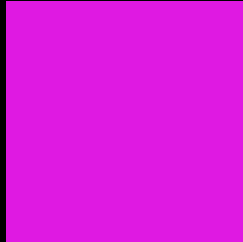
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.8742, 0.3174, 0.1560 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

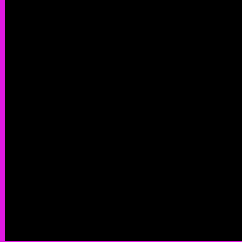
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.8742, 0.3174, 0.1560**

## Background



This preview shows how black text looks on a background with the Yxy color 21.8742, 0.3174, 0.1560.



This preview shows how white text looks on a background with the Yxy color 21.8742, 0.3174, 0.1560.

# 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

21.8742, 0.3174, 0.1560

### Protanopia

22.4451, 0.1807, 0.1533

### Deuteranopia

22.3059, 0.2064, 0.2004



## Tritanopia

21.9005, 0.4739, 0.3224

# Trichromacy



## Original Color

21.8742, 0.3174, 0.1560



## Protanomaly

16.9914, 0.2013, 0.1299



## Deuteranomaly

17.3834, 0.2295, 0.1562



## Tritanomaly

20.3241, 0.4161, 0.2432

# Monochromacy



## Original Color

21.8742, 0.3174, 0.1560



## Achromatopsia

14.7027, 0.3127, 0.3290



## Achromatomaly

13.8993, 0.3167, 0.2141

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8742, 0.3174, 0.1560 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(223, 25, 226)` looks like.

```
.text, #text, p{  
    color:rgb(223, 25, 226)  
}
```

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(223, 25, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 25, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8742, 0.3174, 0.1560 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(223, 25, 226) }
```

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

```
.border{ border-color:rgb(223, 25, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 25, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 25, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 25, 226);  
box-shadow:4px 4px 4px 4px rgb(223, 25,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.8742, 0.3174, 0.1560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 25, 226) }
```

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

```
.background{ background-color: rgb(223, 25,  
226) }
```

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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