

# Converting Colors

$Yxy(20.7165, 0.3980, 0.1966)$

Have a look what the booklet for  
Yxy(20.7165, 0.3980, 0.1966)  
contains.

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**Color**

**Yxy(20.7968, 0.3980, 0.1966)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB00B0
RGB	235, 0, 176
RGB Percent	92%, 0%, 69%
CMY	0.0784, 1.0000, 0.3097
CMYK	0.00, 1.00, 0.25, 0.08
HSL	315°, 100%, 46%
HSV	315°, 100%, 92%
XYZ	42.1014, 20.7968, 42.8841
YIQ	90.3290, 83.5640, 104.5560

# Conversions

## Conversions Part 2

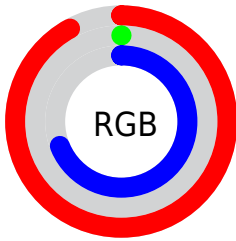
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	235, 0, 176
Decimal	15401136
CIE <sub>Lab</sub>	52.73, 84.91, -28.11
CIE <sub>LCh</sub>	53, 89.441, 341.683
Yxy	20.7968, 0.3980, 0.1966
Android (android.graphics.Color)	4293591216 (0xFFEB00B0)
YUV	90.3290, 42.2358, 126.8765
Hunter-Lab	45.6035, 84.9858, -23.8320

# Details

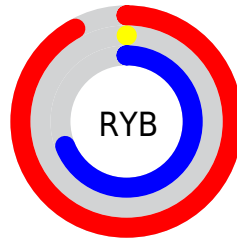
The Yxy color **20.7968, 0.3980, 0.1966** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle washed rose. A complement of this color would be **59.7363, 0.2924, 0.5728**, and the grayscale version is **10.1924, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.8216, 0.3417, 0.2034**, and **10.4287, 0.4115, 0.2041** is the 20% darker color. If you saturate the color by 10%, you get **20.7991, 0.3980, 0.1966**, and if you desaturate by 10%, it is **21.6706, 0.3882, 0.1956**.

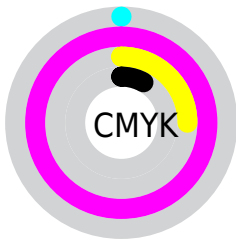
# Distribution



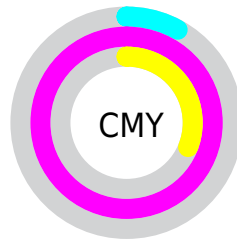
- Red (92%)
- Green (0%)
- Blue (69%)



- Red (92%)
- Yellow (0%)
- Blue (69%)



- Cyan (0%)
- Magenta (100%)
- Yellow (25%)
- Black (8%)



- Cyan (8%)
- Magenta (100%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.7968, 0.3980, 0.1966 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 20.7968, 0.3980, 0.1966 by changing the saturation by 10% instead.




 20.7968, 0.3980,  
0.1966


 20.7968, 0.3980,  
0.1966


256.1966, 0.3543,  
0.2625


 12.9756, 0.4090,  
0.1807


 44.7491, 0.3820,  
0.2202


 7.4117, 0.4231,  
0.1608


 61.6490, 0.3760,  
0.2292


 3.7209, 0.4418,  
0.1354


 82.3438, 0.3710,  
0.2368

 1.5187, 0.4671,  
0.1026

 107.2180, 0.3667,  
0.2434

 0.3018, 0.5114,  
0.0447

 136.6560, 0.3630,  
0.2491

 0.0000, 0.5611,  
0.0000

 171.0422, 0.3597,

 0.0000, 1.0000,

0.2541

0.0000

210.7609, 0.3569,  
0.2585

■ 0.0000, 0.0000,  
0.0000

■ 20.7968, 0.3980,  
0.1966

■ 20.7968, 0.3980,  
0.1966

■ 20.7991, 0.3980,  
0.1966

■ 21.6706, 0.3882,  
0.1956

■ 23.3198, 0.3780,  
0.1988

■ 25.9894, 0.3677,  
0.2069

■ 29.8217, 0.3575,  
0.2192

■ 34.9365, 0.3479,  
0.2348

■ 41.4385, 0.3390,  
0.2527

■ 49.4215, 0.3310,  
0.2718

■ 58.9714, 0.3240,  
0.2913

■ 70.1673, 0.3179,  
0.3105

# Harmonies

## Analogous

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



20.7968, 0.2417, 0.1469



20.7968, 0.3980, 0.1966



20.7968, 0.5544, 0.2681

# Triad

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



20.7968, 0.3980, 0.1966



20.7968, 0.4375, 0.5563



20.7968, 0.0861, 0.1949

# Complementary

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



20.7968, 0.3980, 0.1966



59.7363, 0.2924, 0.5728

# 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.



20.7968, 0.1107, 0.3333



20.7968, 0.3980, 0.1966



20.7968, 0.3079, 0.6347

# Square

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



20.7968, 0.3980, 0.1966



20.7968, 0.5501, 0.4410



20.7968, 0.1887, 0.5470



20.7968, 0.0977, 0.1387



# Rectangle

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



20.7968, 0.3980, 0.1966



20.7968, 0.6036, 0.3198



20.7968, 0.1887, 0.5470



20.7968, 0.0895, 0.2296

# Sweetspot

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



20.7991, 0.3980, 0.1966



59.3447, 0.3311, 0.2715



6.9208, 0.1633, 0.0673



11.7855, 0.3344, 0.2633



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.



20.7991, 0.3980, 0.1966



25.0218, 0.3984, 0.1968



17.9766, 0.5965, 0.3060



15.2454, 0.3176, 0.3115



11.5964, 0.3965, 0.1958



0.9258, 0.3837, 0.1888



# Inverse Universe

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



20.7991, 0.3980, 0.1966



25.0218, 0.3984, 0.1968



62.5655, 0.2481, 0.4131



15.2454, 0.3176, 0.3115



11.5964, 0.3965, 0.1958



0.9258, 0.3837, 0.1888



# Previews

## White Background



This preview shows how the Yxy color 20.7968, 0.3980, 0.1966 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

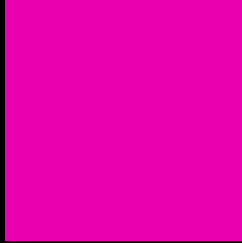
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 20.7968, 0.3980, 0.1966 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

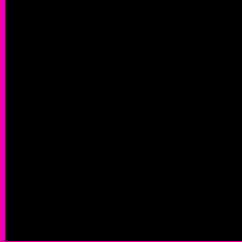
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.7968, 0.3980, 0.1966**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.7968, 0.3980, 0.1966.



This preview shows how white text looks on a background with the Yxy color 20.7968, 0.3980, 0.1966.

# 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

20.7968, 0.3980, 0.1966

### Protanopia

21.7210, 0.1821, 0.1545

### Deuteranopia

21.3769, 0.2673, 0.2613



## Tritanopia

21.0682, 0.5419, 0.3261

# Trichromacy



## Original Color

20.7968, 0.3980, 0.1966



## Protanomaly

14.5584, 0.2138, 0.1332



## Deuteranomaly

16.2833, 0.3094, 0.2021



## Tritanomaly

19.7501, 0.4997, 0.2715

# Monochromacy



## Original Color

20.7968, 0.3980, 0.1966



## Achromatopsia

10.2242, 0.3127, 0.3290



## Achromatomaly

10.1464, 0.3563, 0.2226

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.7968, 0.3980, 0.1966 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(235, 0, 176)` looks like.

```
.text, #text, p{  
  color:rgb(235, 0, 176)  
}
```

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(235, 0, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 0, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 20.7968, 0.3980, 0.1966 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(235, 0, 176) }
```

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

```
.border{ border-color:rgb(235, 0, 176) }
```

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

Here you see how a box with a 4 pixel rgb(235, 0, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 0, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 0, 176);  
box-shadow:4px 4px 4px 4px rgb(235, 0,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.7968, 0.3980, 0.1966 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 0, 176) }
```

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

```
.background{ background-color: rgb(235, 0,  
176) }
```

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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