

# Converting Colors

$Y_{xy}(24.7672, 0.3316, 0.1600)$

Have a look what the booklet for  
Yxy(24.7672, 0.3316, 0.1600)  
contains.

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# Color

**Yxy(24.7034, 0.3317, 0.1601)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F200E8
RGB	242, 0, 232
RGB Percent	95%, 0%, 91%
CMY	0.0510, 0.9996, 0.0902
CMYK	0.00, 1.00, 0.04, 0.05
HSL	302°, 100%, 47%
HSV	302°, 100%, 95%
XYZ	51.1812, 24.7034, 78.4152
YIQ	98.8060, 69.7600, 123.4560

# Conversions

## Conversions Part 2

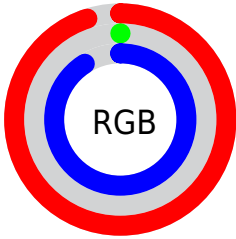
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 0, 232
Decimal	15859944
CIE <sub>Lab</sub>	56.79, 93.05, -53.78
CIE <sub>LCh</sub>	57, 107.475, 329.974
Yxy	24.7034, 0.3317, 0.1601
Android (android.graphics.Color)	4294050024 (0xFFFF200E8)
YUV	98.8060, 65.6646, 125.5811
Hunter-Lab	49.7025, 96.8313, -58.7495

# Details

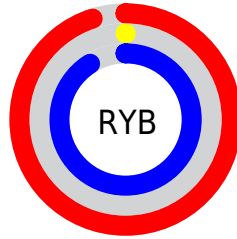
The Yxy color **24.7034, 0.3317, 0.1601** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light saturated magenta. A complement of this color would be **63.5227, 0.2995, 0.5981**, and the grayscale version is **12.2618, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.9827, 0.3193, 0.1894**, and **12.9189, 0.3294, 0.1588** is the 20% darker color. If you saturate the color by 10%, you get **24.7019, 0.3317, 0.1601**, and if you desaturate by 10%, it is **25.4253, 0.3304, 0.1626**.

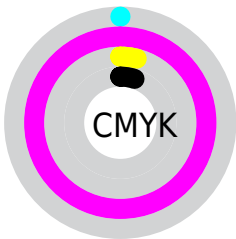
# Distribution



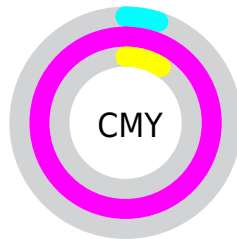
- Red (95%)
- Green (0%)
- Blue (91%)



- Red (95%)
- Yellow (0%)
- Blue (91%)



- Cyan (0%)
- Magenta (100%)
- Yellow (4%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.7034, 0.3317, 0.1601 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 24.7034, 0.3317, 0.1601 by changing the saturation by 10% instead.





 24.7034, 0.3317,  
0.1601


 24.7034, 0.3317,  
0.1601


276.3576, 0.3270,  
0.2368


 15.8562, 0.3315,  
0.1437

 51.1756, 0.3310,  
0.1860


 9.4225, 0.3305,  
0.1243


 69.5695, 0.3305,  
0.1963

 5.0178, 0.3281,  
0.1014


 91.9143, 0.3299,  
0.2052

 2.2577, 0.3229,  
0.0745

 118.5946, 0.3293,  
0.2131

 0.7512, 0.3122,  
0.0441

 149.9947, 0.3287,  
0.2201

 0.0000, 0.2942,  
0.0000

186.4989, 0.3281,


 0.0000, 0.2437,


0.2263


0.0000

228.4918, 0.3275,  
0.2318

 0.0000, 0.0000,  
0.0000

 24.7034, 0.3317,  
0.1601


 24.7034, 0.3317,  
0.1601


 24.7019, 0.3317,  
0.1601

 25.4253, 0.3304,  
0.1626

 26.9722, 0.3288,  
0.1688

 29.6009, 0.3270,  
0.1794

 33.4643, 0.3250,  
0.1942

 38.6910, 0.3229,  
0.2127

■ 45.3934, 0.3207,  
0.2340

■ 53.6721, 0.3186,  
0.2572

■ 63.6193, 0.3165,  
0.2813

■ 75.3196, 0.3145,  
0.3055

# Harmonies

## Analogous

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



24.7034, 0.1844, 0.1208



24.7034, 0.3317, 0.1601



24.7034, 0.5239, 0.2278

# Triad

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



24.7034, 0.3317, 0.1601



24.7034, 0.4874, 0.5126



24.7034, 0.0735, 0.2222

# Complementary

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



24.7034, 0.3317, 0.1601



63.5227, 0.2995, 0.5981

# 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.



24.7034, 0.1146, 0.4242



24.7034, 0.3317, 0.1601



24.7034, 0.3481, 0.6432

# Square

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



24.7034, 0.3317, 0.1601



24.7034, 0.6011, 0.3935



24.7034, 0.2156, 0.6519



24.7034, 0.0742, 0.1371



# Rectangle

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



24.7034, 0.3317, 0.1601



24.7034, 0.6131, 0.2792



24.7034, 0.2156, 0.6519



24.7034, 0.0812, 0.2742

# Sweetspot

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



24.7046, 0.3317, 0.1601



60.3183, 0.3186, 0.2569



6.4655, 0.1508, 0.0604



12.0211, 0.3195, 0.2469



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.



24.7046, 0.3317, 0.1601



27.8200, 0.3317, 0.1601



20.0703, 0.5138, 0.2604



16.0195, 0.3144, 0.3067



13.2762, 0.3315, 0.1600



1.1079, 0.3300, 0.1592



# Inverse Universe

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



24.7046, 0.3317, 0.1601



27.8200, 0.3317, 0.1601



65.0885, 0.2700, 0.4920



16.0195, 0.3144, 0.3067



13.2762, 0.3315, 0.1600



1.1079, 0.3300, 0.1592



# Previews

## White Background



This preview shows how the Yxy color 24.7034, 0.3317, 0.1601 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

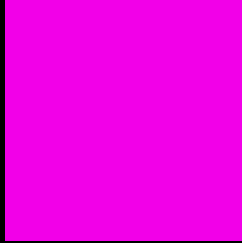
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.7034, 0.3317, 0.1601 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

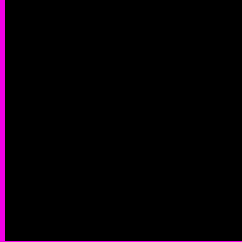
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.7034, 0.3317, 0.1601**

## Background



This preview shows how black text looks on a background with the Yxy color 24.7034, 0.3317, 0.1601.



This preview shows how white text looks on a background with the Yxy color 24.7034, 0.3317, 0.1601.

# 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

24.7034, 0.3317, 0.1601

### Protanopia

25.6479, 0.1913, 0.1677

### Deuteranopia

25.5142, 0.2152, 0.2099



## Tritanopia

24.8392, 0.4932, 0.3233

# Trichromacy



## Original Color

24.7034, 0.3317, 0.1601



## Protanomaly

18.2807, 0.2163, 0.1324



## Deuteranomaly

18.5102, 0.2419, 0.1553



## Tritanomaly

22.4251, 0.4375, 0.2434

# Monochromacy



## Original Color

24.7034, 0.3317, 0.1601



## Achromatopsia

12.4772, 0.3127, 0.3290



## Achromatomaly

12.2409, 0.3249, 0.2008

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.7034, 0.3317, 0.1601 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(242, 0, 232)` looks like.

```
.text, #text, p{  
  color:rgb(242, 0, 232)  
}
```

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(242, 0, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 24.7034, 0.3317, 0.1601 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(242, 0, 232) }
```

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

```
.border{ border-color:rgb(242, 0, 232) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 232);  
box-shadow:4px 4px 4px 4px rgb(242, 0,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.7034, 0.3317, 0.1601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 232) }
```

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

```
.background{ background-color: rgb(242, 0,  
232) }
```

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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