

# Converting Colors

$Yxy(37.8582, 0.3377, 0.2076)$

Have a look what the booklet for  
Yxy(37.8582, 0.3377, 0.2076)  
contains.

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# Color

**Yxy(37.7735, 0.3380, 0.2076)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6BEB
RGB	255, 107, 235
RGB Percent	100%, 42%, 92%
CMY	0.0000, 0.5804, 0.0783
CMYK	0.00, 0.58, 0.08, 0.00
HSL	308°, 100%, 71%
HSV	308°, 58%, 100%
XYZ	61.5002, 37.7735, 82.6796
YIQ	165.8440, 47.1200, 71.1840

# Conversions

## Conversions Part 2

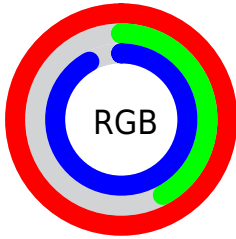
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 107, 235</a>
Decimal	<a href="#">16739307</a>
CIELab	<a href="#">67.85, 71.03, -37.89</a>
CIELCh	<a href="#">68, 80.501, 331.923</a>
Yxy	<a href="#">37.7735, 0.3380, 0.2076</a>
Android (android.graphics.Color)	<a href="#">4294929387 (0xFFFF6BEB)</a>
YUV	<a href="#">165.8440, 34.0939, 78.1898</a>
Hunter-Lab	<a href="#">61.4601, 71.0611, -36.7381</a>

# Details

The Yxy color **37.7735, 0.3380, 0.2076** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **76.1759, 0.2961, 0.4941**, and the grayscale version is **37.8676, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.3903, 0.3168, 0.2412**, and **16.6581, 0.3414, 0.1803** is the 20% darker color. If you saturate the color by 10%, you get **33.0214, 0.3433, 0.1930**, and if you desaturate by 10%, it is **44.0966, 0.3328, 0.2256**.

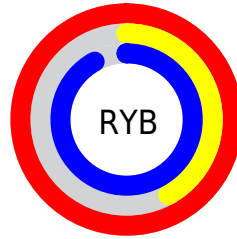
# Distribution



Red (100%)

Green (42%)

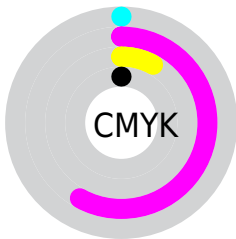
Blue (92%)



Red (100%)

Yellow (42%)

Blue (92%)

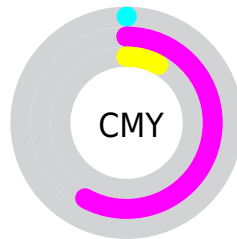


Cyan (0%)

Magenta (58%)

Yellow (8%)

Black (0%)



Cyan (0%)

Magenta (58%)


Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7735, 0.3380, 0.2076 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 37.7735, 0.3380, 0.2076 by changing the saturation by 10% instead.




 37.7735, 0.3380,  
0.2076

 37.7735, 0.3380,  
0.2076


336.6473, 0.3279,  
0.2629


 25.8069, 0.3398,  
0.1954


 71.7608, 0.3349,  
0.2265

 16.6793, 0.3418,  
0.1806


 94.5504, 0.3335,  
0.2339

 10.0061, 0.3439,  
0.1624


 121.7164, 0.3324,  
0.2404

 5.4030, 0.3458,  
0.1397

153.6433, 0.3313,  
0.2460

 2.4856, 0.3468,  
0.1110

190.7155, 0.3303,  
0.2510

 0.8694, 0.3450,  
0.0751

233.3173, 0.3294,

 0.0000, 0.3462,

0.2554

0.0000

281.8331, 0.3286,  
0.2594

■ 0.0000, 0.2749,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7735, 0.3380,  
0.2076

■ 37.7735, 0.3380,  
0.2076

■ 33.0214, 0.3433,  
0.1930

■ 44.0966, 0.3328,  
0.2256

■ 29.6979, 0.3485,  
0.1826


■ 52.1156, 0.3278,  
0.2459


■ 27.6349, 0.3535,  
0.1767

■ 61.9430, 0.3232,  
0.2676

■ 26.6043, 0.3581,  
0.1752

■ 73.6818, 0.3191,  
0.2899

 26.4602, 0.3590,  
0.1751

 87.4270, 0.3154,  
0.3119

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



37.7735, 0.2287, 0.1723



37.7735, 0.3380, 0.2076



37.7735, 0.4612, 0.2655

# Triad

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



37.7735, 0.3380, 0.2076



37.7735, 0.4591, 0.4940



37.7735, 0.1310, 0.2585

# Complementary

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



37.7735, 0.3380, 0.2076



76.1759, 0.2961, 0.4941

# 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.



37.7735, 0.1719, 0.3850



37.7735, 0.3380, 0.2076



37.7735, 0.3601, 0.5518

# Square

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



37.7735, 0.3380, 0.2076



37.7735, 0.5285, 0.4123



37.7735, 0.2554, 0.5180



37.7735, 0.1288, 0.1889



# Rectangle

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



37.7735, 0.3380, 0.2076



37.7735, 0.5200, 0.3114



37.7735, 0.2554, 0.5180



37.7735, 0.1399, 0.2947

# Sweetspot

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



37.7735, 0.3380, 0.2076



75.0214, 0.3187, 0.2922



22.2236, 0.2114, 0.1467



15.5101, 0.3195, 0.2877



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.



37.7735, 0.3380, 0.2076



32.2638, 0.3443, 0.1906



34.3552, 0.4237, 0.2749



18.2557, 0.3159, 0.3087



13.8424, 0.3583, 0.1747



1.3589, 0.3534, 0.1720



# Inverse Universe

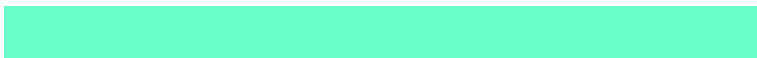
The Inverse Universe completely reimagines the original color for something new.



37.7735, 0.3380, 0.2076



32.2638, 0.3443, 0.1906



78.8493, 0.2633, 0.3968



18.2557, 0.3159, 0.3087



13.8424, 0.3583, 0.1747



1.3589, 0.3534, 0.1720



# Previews

## White Background



This preview shows how the Yxy color 37.7735, 0.3380, 0.2076 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

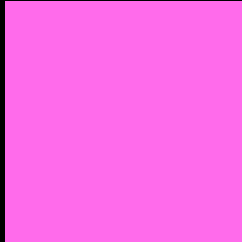
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.7735, 0.3380, 0.2076 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

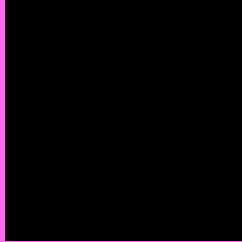
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 37.7735, 0.3380, 0.2076**

## Background



This preview shows how black text looks on a background with the Yxy color 37.7735, 0.3380, 0.2076.

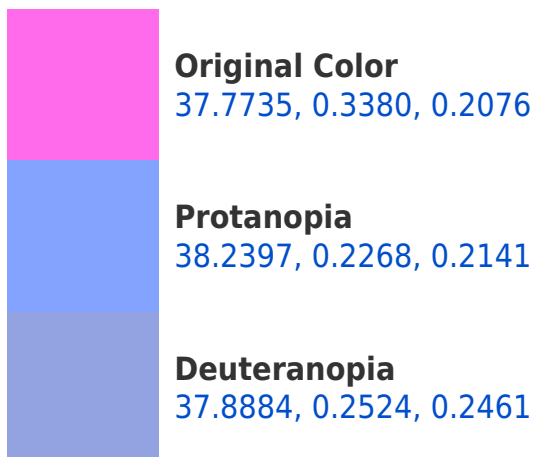


This preview shows how white text looks on a background with the Yxy color 37.7735, 0.3380, 0.2076.

# 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





## Tritanopia

37.5682, 0.4289, 0.3186

# Trichromacy



## Original Color

37.7735, 0.3380, 0.2076



## Protanomaly

35.6523, 0.2572, 0.2053



## Deuteranomaly

35.7412, 0.2787, 0.2253



## Tritanomaly

37.1539, 0.3959, 0.2736

# Monochromacy



## Original Color

37.7735, 0.3380, 0.2076



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

36.0182, 0.3224, 0.2712

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7735, 0.3380, 0.2076 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(255, 107, 235)` looks like.

```
.text, #text, p{  
    color:rgb(255, 107, 235)  
}
```

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(255, 107, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 107, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7735, 0.3380, 0.2076 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(255, 107, 235) }
```

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

```
.border{ border-color:rgb(255, 107, 235) }
```

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

Here you see how a box with a 4 pixel rgb(255, 107, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 107, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 107, 235);  
box-shadow:4px 4px 4px 4px rgb(255, 107,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.7735, 0.3380, 0.2076 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 107, 235) }
```

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

```
.background{ background-color: rgb(255,  
107, 235) }
```

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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