

# Converting Colors

$Y_{xy}(36.2798, 0.3472, 0.2107)$

Have a look what the booklet for  
Yxy(36.2798, 0.3472, 0.2107)  
contains.

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# Color

**Yxy(36.2537, 0.3477, 0.2111)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF66E2
RGB	255, 102, 226
RGB Percent	100%, 40%, 89%
CMY	0.0000, 0.5999, 0.1139
CMYK	0.00, 0.60, 0.11, 0.00
HSL	311°, 100%, 70%
HSV	311°, 60%, 100%
XYZ	59.7130, 36.2537, 75.7704
YIQ	161.8830, 51.3840, 71.0000

# Conversions

## Conversions Part 2

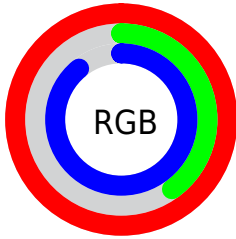
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 102, 226</a>
Decimal	<a href="#">16738018</a>
CIELab	<a href="#">66.71, 71.71, -34.62</a>
CIElCh	<a href="#">67, 79.631, 334.228</a>
Yxy	<a href="#">36.2537, 0.3477, 0.2111</a>
Android (android.graphics.Color)	<a href="#">4294928098 (0xFFFF66E2)</a>
YUV	<a href="#">161.8830, 31.6097, 81.6636</a>
Hunter-Lab	<a href="#">60.2110, 71.6541, -32.4636</a>

# Details

The Yxy color **36.2537, 0.3477, 0.2111** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **75.9849, 0.2923, 0.4899**, and the grayscale version is **35.9085, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.6216, 0.3171, 0.2366**, and **15.7661, 0.3549, 0.1841** is the 20% darker color. If you saturate the color by 10%, you get **31.7275, 0.3552, 0.1980**, and if you desaturate by 10%, it is **42.3318, 0.3404, 0.2277**.

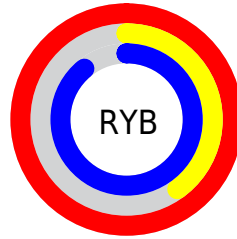
# Distribution



Red (100%)

Green (40%)

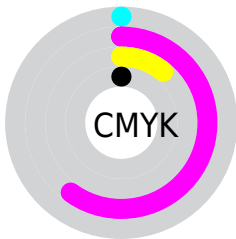
Blue (89%)



Red (100%)

Yellow (40%)

Blue (89%)

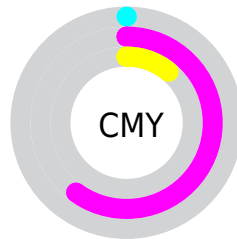


Cyan (0%)

Magenta (60%)

Yellow (11%)

Black (0%)



Cyan (0%)

Magenta (60%)


Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.2537, 0.3477, 0.2111 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 36.2537, 0.3477, 0.2111 by changing the saturation by 10% instead.





 36.2537, 0.3477,  
0.2111


 36.2537, 0.3477,  
0.2111


330.0681, 0.3325,  
0.2655


 24.6302, 0.3508,  
0.1989


 69.4235, 0.3427,  
0.2298

 15.8018, 0.3545,  
0.1841


 91.7385, 0.3406,  
0.2371

 9.3840, 0.3588,  
0.1658


 118.3862, 0.3389,  
0.2435

 4.9925, 0.3638,  
0.1427

 149.7509, 0.3373,  
0.2490

 2.2428, 0.3691,  
0.1131

186.2171, 0.3359,  
0.2539

 0.7432, 0.3740,  
0.0749

228.1691, 0.3346,

 0.0000, 0.3849,

0.2582

0.0000

275.9913, 0.3335,  
0.2620

■ 0.0000, 0.3009,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.2537, 0.3477,  
0.2111

■ 36.2537, 0.3477,  
0.2111

■ 31.7275, 0.3552,  
0.1980

■ 42.3318, 0.3404,  
0.2277

■ 28.6013, 0.3627,  
0.1891

■ 50.0846, 0.3336,  
0.2467

■ 26.7023, 0.3700,  
0.1850

■ 59.6284, 0.3274,  
0.2672

■ 25.7451, 0.3769,  
0.1850

■ 71.0680, 0.3218,  
0.2882

 25.7444, 0.3769,  
0.1850

 84.4997, 0.3169,  
0.3090

99.9995, 0.3127,  
0.3290

# Harmonies

## Analogous

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



36.2537, 0.2355, 0.1737



36.2537, 0.3477, 0.2111



36.2537, 0.4699, 0.2705

# Triad

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



36.2537, 0.3477, 0.2111



36.2537, 0.4524, 0.5002



36.2537, 0.1292, 0.2509

# Complementary

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



36.2537, 0.3477, 0.2111



75.9849, 0.2923, 0.4899

# 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.



36.2537, 0.1668, 0.3738



36.2537, 0.3477, 0.2111



36.2537, 0.3520, 0.5540

# Square

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



36.2537, 0.3477, 0.2111



36.2537, 0.5254, 0.4186



36.2537, 0.2476, 0.5109



36.2537, 0.1297, 0.1853



# Rectangle

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



36.2537, 0.3477, 0.2111



36.2537, 0.5252, 0.3168



36.2537, 0.2476, 0.5109



36.2537, 0.1371, 0.2856

# Sweetspot

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



36.2554, 0.3477, 0.2111



73.5814, 0.3208, 0.2923



21.4784, 0.2127, 0.1427



14.9692, 0.3223, 0.2862



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.



36.2554, 0.3477, 0.2111



30.9925, 0.3567, 0.1958



32.9838, 0.4396, 0.2814



18.2377, 0.3167, 0.3100



13.4735, 0.3758, 0.1844



1.3264, 0.3684, 0.1803



# Inverse Universe

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



36.2554, 0.3477, 0.2111



30.9925, 0.3567, 0.1958



78.8277, 0.2590, 0.3893



18.2377, 0.3167, 0.3100



13.4735, 0.3758, 0.1844



1.3264, 0.3684, 0.1803



# Previews

## White Background



This preview shows how the Yxy color 36.2537, 0.3477, 0.2111 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

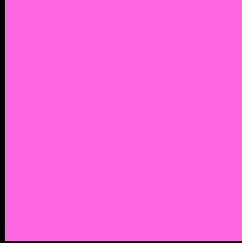
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.2537, 0.3477, 0.2111 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

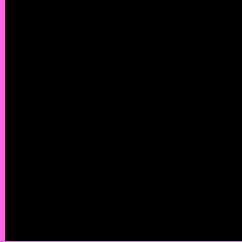
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.2537, 0.3477, 0.2111**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.2537, 0.3477, 0.2111.

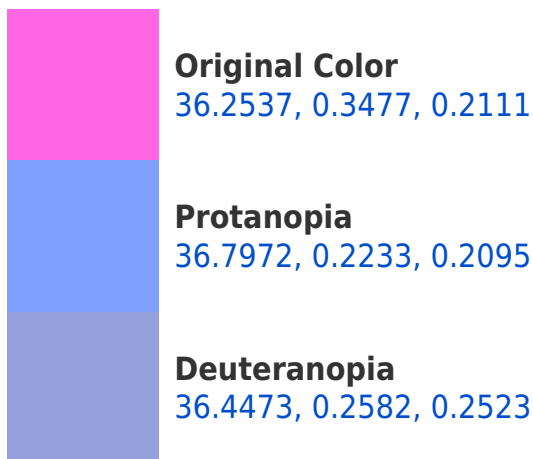


This preview shows how white text looks on a background with the Yxy color 36.2537, 0.3477, 0.2111.

# 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

36.0835, 0.4385, 0.3197

# Trichromacy



## Original Color

36.2537, 0.3477, 0.2111



## Protanomaly

33.8811, 0.2570, 0.2034



## Deuteranomaly

34.1973, 0.2864, 0.2297



## Tritanomaly

35.6895, 0.4058, 0.2759

# Monochromacy



## Original Color

36.2537, 0.3477, 0.2111



## Achromatopsia

36.1307, 0.3127, 0.3290



## Achromatomaly

33.9947, 0.3267, 0.2715

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.2537, 0.3477, 0.2111 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, 102, 226)` looks like.

```
.text, #text, p{  
    color:rgb(255, 102, 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(255, 102, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 102, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 36.2537, 0.3477, 0.2111 is called "border". The border property can be set on classes, ids or directly on the HTML element.

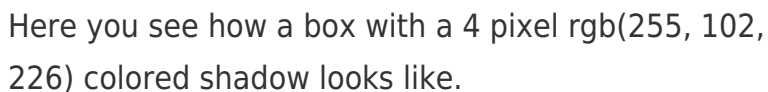
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 102, 226) }
```

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

```
.border{ border-color:rgb(255, 102, 226) }
```

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



Here you see how a box with a 4 pixel `rgb(255, 102, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 102, 226); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 102, 226); box-shadow:4px 4px 4px 4px rgb(255, 102, 226) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.2537, 0.3477, 0.2111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 102, 226) }
```

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

```
.background{ background-color: rgb(255,  
102, 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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