

# Converting Colors

$Y_{xy}(40.9665, 0.3351, 0.1908)$

Have a look what the booklet for  
Yxy(40.9665, 0.3351, 0.1908)  
contains.

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# Color

**Yxy(36.6644, 0.3195, 0.1848)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5FFF
RGB	255, 95, 255
RGB Percent	100%, 37%, 100%
CMY	0.0000, 0.6275, 0.0000
CMYK	0.00, 0.63, 0.00, 0.00
HSL	300°, 100%, 69%
HSV	300°, 63%, 100%
XYZ	63.3889, 36.6644, 98.3471
YIQ	161.0800, 44.0000, 83.6800

# Conversions

## Conversions Part 2

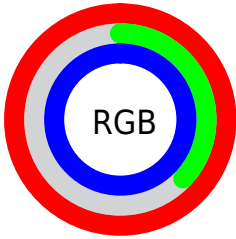
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 95, 255
Decimal	16736255
CIE <sub>Lab</sub>	67.02, 78.98, -50.18
CIE <sub>LCh</sub>	67, 93.576, 327.569
Y <sub>xy</sub>	36.6644, 0.3195, 0.1848
Android (android.graphics.Color)	4294926335 (0xFFFF5FFF)
Y <sub>UV</sub>	161.0800, 46.3026, 82.3678
Hunter-Lab	60.5511, 80.9011, -53.9130

# Details

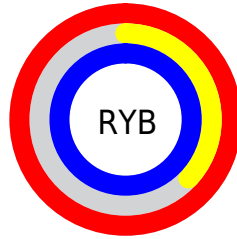
The Yxy color **36.6644, 0.3195, 0.1848** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **74.7778, 0.3032, 0.5329**, and the grayscale version is **35.4396, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.9227, 0.3173, 0.2320**, and **16.1119, 0.3170, 0.1552** is the 20% darker color. If you saturate the color by 10%, you get **32.7958, 0.3201, 0.1709**, and if you desaturate by 10%, it is **42.0291, 0.3186, 0.2027**.

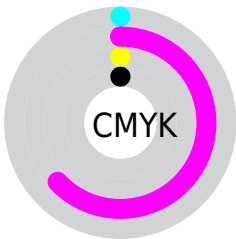
# Distribution



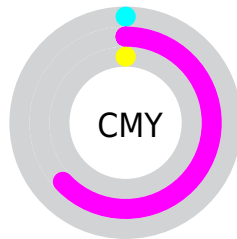
- Red (100%)
- Green (37%)
- Blue (100%)



- Red (100%)
- Yellow (37%)
- Blue (100%)



- Cyan (0%)
- Magenta (63%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (63%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6644, 0.3195, 0.1848 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 36.6644, 0.3195, 0.1848 by changing the saturation by 10% instead.




 36.6644, 0.3195,  
0.1848

 36.6644, 0.3195,  
0.1848


331.8553, 0.3197,  
0.2487

 24.9478, 0.3186,  
0.1713


 70.0563, 0.3202,  
0.2062

 16.0381, 0.3171,  
0.1552


 92.5004, 0.3203,  
0.2147

 9.5511, 0.3145,  
0.1358

 119.2891, 0.3203,  
0.2222

 5.1024, 0.3101,  
0.1125

 150.8067, 0.3202,  
0.2288

 2.3075, 0.3022,  
0.0846

187.4378, 0.3201,  
0.2346

 0.7777, 0.2876,  
0.0520

229.5667, 0.3200,

 0.0000, 0.2645,

0.2398

0.0000

277.5777, 0.3198,  
0.2445

0.0000, 0.1956,  
0.0000

0.0000, 0.0000,  
0.0000

36.6644, 0.3195,  
0.1848

36.6644, 0.3195,  
0.1848

32.7958, 0.3201,  
0.1709

42.0291, 0.3186,  
0.2027

30.2800, 0.3206,  
0.1613


49.0321, 0.3176,  
0.2239

28.9284, 0.3208,  
0.1560

57.7882, 0.3165,  
0.2474

28.4800, 0.3209,  
0.1542

68.4042, 0.3154,  
0.2722

 80.9788, 0.3142,  
0.2974

 95.6036, 0.3130,  
0.3223

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.



36.6644, 0.2020, 0.1508



36.6644, 0.3195, 0.1848



36.6644, 0.4664, 0.2446

# Triad

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



36.6644, 0.3195, 0.1848



36.6644, 0.4845, 0.4931



36.6644, 0.1123, 0.2606

# Complementary

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



36.6644, 0.3195, 0.1848



74.7778, 0.3032, 0.5329

# 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.



36.6644, 0.1607, 0.4195



36.6644, 0.3195, 0.1848



36.6644, 0.3739, 0.5792

# Square

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



36.6644, 0.3195, 0.1848



36.6644, 0.5620, 0.3989



36.6644, 0.2573, 0.5721



36.6644, 0.1065, 0.1763



# Rectangle

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



36.6644, 0.3195, 0.1848



36.6644, 0.5425, 0.2927



36.6644, 0.2573, 0.5721



36.6644, 0.1229, 0.3057

# Sweetspot

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



36.6611, 0.3195, 0.1848



72.8879, 0.3149, 0.2817



17.8331, 0.1900, 0.1262



14.8640, 0.3153, 0.2745



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.



36.6611, 0.3195, 0.1848



32.1187, 0.3203, 0.1683



32.5359, 0.4093, 0.2510



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

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



36.6611, 0.3195, 0.1848



32.1187, 0.3203, 0.1683



77.0467, 0.2706, 0.4325



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 36.6644, 0.3195, 0.1848 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

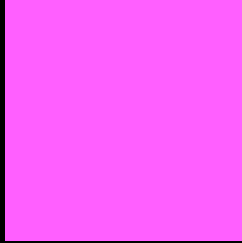
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.6644, 0.3195, 0.1848 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

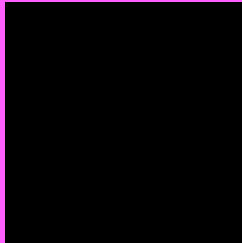
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.6644, 0.3195, 0.1848**

## Background



This preview shows how black text looks on a background with the Yxy color 36.6644, 0.3195, 0.1848.



This preview shows how white text looks on a background with the Yxy color 36.6644, 0.3195, 0.1848.

# 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

36.6644, 0.3195, 0.1848

### Protanopia

36.7972, 0.2233, 0.2095

### Deuteranopia

36.8843, 0.2295, 0.2227



## Tritanopia

36.2654, 0.4283, 0.3184

# Trichromacy



## Original Color

36.6644, 0.3195, 0.1848



## Protanomaly

33.7126, 0.2497, 0.1909



## Deuteranomaly

33.9529, 0.2550, 0.1991

## Tritanomaly

35.6516, 0.3870, 0.2618

# Monochromacy



## Original Color

36.6644, 0.3195, 0.1848



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

33.4336, 0.3161, 0.2559

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6644, 0.3195, 0.1848 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, 95, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 95, 255)  
}
```

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, 95, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 95, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6644, 0.3195, 0.1848 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, 95, 255) }
```

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

```
.border{ border-color:rgb(255, 95, 255) }
```

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

Here you see how a box with a 4 pixel rgb(255, 95, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 95, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 95, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 95,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6644, 0.3195, 0.1848 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 95, 255) }
```

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

```
.background{ background-color: rgb(255, 95,  
255) }
```

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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