

# Converting Colors

$Y_{xy}(41.2701, 0.3188, 0.2003)$

Have a look what the booklet for  
Yxy(41.2701, 0.3188, 0.2003)  
contains.

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**Color**

**Yxy(41.2026, 0.3188, 0.2001)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF75FF
RGB	255, 117, 255
RGB Percent	100%, 46%, 100%
CMY	0.0000, 0.5411, 0.0002
CMYK	0.00, 0.54, 0.00, 0.00
HSL	300°, 100%, 73%
HSV	300°, 54%, 100%
XYZ	65.6441, 41.2026, 99.0633
YIQ	173.9940, 37.9500, 72.1740

# Conversions

## Conversions Part 2

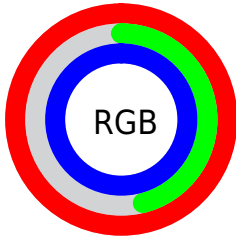
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 117, 255
Decimal	16741887
CIE <sub>Lab</sub>	70.32, 69.91, -44.97
CIE <sub>LCh</sub>	70, 83.125, 327.246
Yxy	41.2026, 0.3188, 0.2001
Android (android.graphics.Color)	4294931967 (0xFFFF75FF)
YUV	173.9940, 39.9360, 71.0423
Hunter-Lab	64.1893, 70.2146, -46.5698

# Details

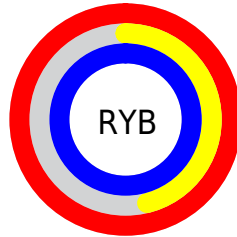
The Yxy color **41.2026, 0.3188, 0.2001** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **76.5870, 0.3045, 0.5036**, and the grayscale version is **42.1044, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.7521, 0.3164, 0.2498**, and **18.6056, 0.3164, 0.1723** is the 20% darker color. If you saturate the color by 10%, you get **36.0480, 0.3196, 0.1827**, and if you desaturate by 10%, it is **47.9789, 0.3178, 0.2209**.

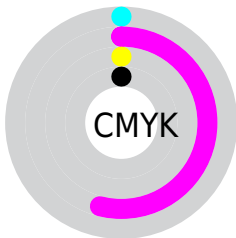
# Distribution



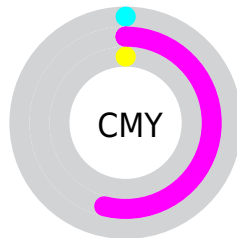
- Red (100%)
- Green (46%)
- Blue (100%)



- Red (100%)
- Yellow (46%)
- Blue (100%)



- Cyan (0%)
- Magenta (54%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (54%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.2026, 0.3188, 0.2001 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 41.2026, 0.3188, 0.2001 by changing the saturation by 10% instead.





 41.2026, 0.3188,  
0.2001

 41.2026, 0.3188,  
0.2001

351.1667, 0.3186,  
0.2574


 28.4774, 0.3182,  
0.1878


 76.9914, 0.3192,  
0.2194

 18.6859, 0.3171,  
0.1731


 100.8237, 0.3193,  
0.2271

 11.4435, 0.3153,  
0.1552


 129.1273, 0.3192,  
0.2338

 6.3660, 0.3120,  
0.1334

162.2864, 0.3191,  
0.2396

 3.0689, 0.3061,  
0.1064

200.6855, 0.3190,  
0.2449

 1.1678, 0.2949,  
0.0735

244.7090, 0.3189,

 0.0352, 0.2815,

0.2495

0.0047

294.7413, 0.3187,  
0.2537

■ 0.0000, 0.2247,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 41.2026, 0.3188,  
0.2001

■ 41.2026, 0.3188,  
0.2001

■ 36.0480, 0.3196,  
0.1827

■ 47.9789, 0.3178,  
0.2209

■ 32.3748, 0.3203,  
0.1693

■ 56.4910, 0.3167,  
0.2441

■ 30.0282, 0.3207,  
0.1604

■ 66.8491, 0.3156,  
0.2688

■ 28.8169, 0.3209,  
0.1556

■ 79.1527, 0.3144,  
0.2940

 28.4743, 0.3210,  
0.1542

 93.4944, 0.3132,  
0.3190

99.9993, 0.3127,  
0.3290

# Harmonies

## Analogous

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



41.2026, 0.2149, 0.1688



41.2026, 0.3188, 0.2001



41.2026, 0.4439, 0.2552

# Triad

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



41.2026, 0.3188, 0.2001



41.2026, 0.4729, 0.4818



41.2026, 0.1342, 0.2743

# Complementary

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



41.2026, 0.3188, 0.2001



76.5870, 0.3045, 0.5036

# 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.



41.2026, 0.1819, 0.4083



41.2026, 0.3188, 0.2001



41.2026, 0.3765, 0.5475

# Square

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



41.2026, 0.3188, 0.2001



41.2026, 0.5352, 0.3999



41.2026, 0.2709, 0.5322



41.2026, 0.1266, 0.1960



# Rectangle

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



41.2026, 0.3188, 0.2001



41.2026, 0.5098, 0.3003



41.2026, 0.2709, 0.5322



41.2026, 0.1452, 0.3138

# Sweetspot

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



41.2045, 0.3188, 0.2001



76.6737, 0.3146, 0.2893



23.7312, 0.2075, 0.1551



15.8510, 0.3148, 0.2841



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.



41.2045, 0.3188, 0.2001



35.6633, 0.3197, 0.1813



37.5329, 0.3902, 0.2593



18.3003, 0.3138, 0.3056



14.8790, 0.3210, 0.1542



1.4487, 0.3210, 0.1542



# Inverse Universe

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



41.2045, 0.3188, 0.2001



35.6633, 0.3197, 0.1813



78.8468, 0.2738, 0.4155



18.3003, 0.3138, 0.3056



14.8790, 0.3210, 0.1542



1.4487, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 41.2026, 0.3188, 0.2001 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

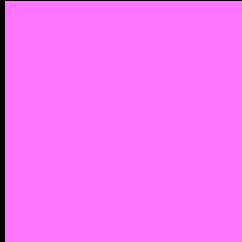
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.2026, 0.3188, 0.2001 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

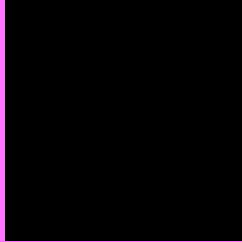
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.2026, 0.3188, 0.2001**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.2026, 0.3188, 0.2001.



This preview shows how white text looks on a background with the Yxy color 41.2026, 0.3188, 0.2001.

# 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

41.2026, 0.3188, 0.2001

### Protanopia

41.7202, 0.2347, 0.2247

### Deuteranopia

41.3326, 0.2405, 0.2338



## Tritanopia

41.0327, 0.4067, 0.3172

# Trichromacy



## Original Color

41.2026, 0.3188, 0.2001



## Protanomaly

39.4205, 0.2591, 0.2100



## Deuteranomaly

39.1631, 0.2637, 0.2155

## Tritanomaly

40.5859, 0.3727, 0.2687

# Monochromacy



## Original Color

41.2026, 0.3188, 0.2001



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

39.7908, 0.3156, 0.2683

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.2026, 0.3188, 0.2001 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, 117, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 117, 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, 117, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 117, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 41.2026, 0.3188, 0.2001 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, 117, 255) }
```

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

```
.border{ border-color:rgb(255, 117, 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, 117, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 117, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 117, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 117,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.2026, 0.3188, 0.2001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 117, 255) }
```

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

```
.background{ background-color: rgb(255,  
117, 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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