

# Converting Colors

$Yxy(81.4361, 0.4219, 0.2521)$

Have a look what the booklet for  
Yxy(81.4361, 0.4219, 0.2521)  
contains.

<b>Yxy(46.3713, 0.3180, 0.2161)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(46.3713, 0.3180, 0.2161)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF89FF
RGB	255, 137, 255
RGB Percent	100%, 54%, 100%
CMY	0.0000, 0.4627, 0.0000
CMYK	0.00, 0.46, 0.00, 0.00
HSL	300°, 100%, 77%
HSV	300°, 46%, 100%
XYZ	68.2373, 46.3713, 99.9740
YIQ	185.7340, 32.4500, 61.7140

# Conversions

## Conversions Part 2

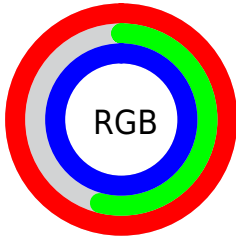
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 137, 255
Decimal	16747007
CIE <sub>Lab</sub>	73.79, 60.70, -39.59
CIE <sub>LCh</sub>	74, 72.470, 326.891
Yxy	46.3713, 0.3180, 0.2161
Android (android.graphics.Color)	4294937087 (0xFFFF89FF)
YUV	185.7340, 34.1481, 60.7463
Hunter-Lab	68.0965, 59.7002, -39.3775

# Details

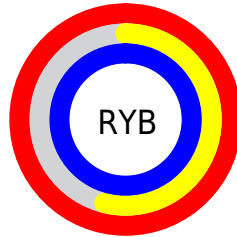
The Yxy color **46.3713, 0.3180, 0.2161** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **78.6449, 0.3058, 0.4754**, and the grayscale version is **48.7387, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.0636, 0.3155, 0.2693**, and **21.8476, 0.3168, 0.1924** is the 20% darker color. If you saturate the color by 10%, you get **39.9590, 0.3190, 0.1960**, and if you desaturate by 10%, it is **54.4983, 0.3169, 0.2389**.

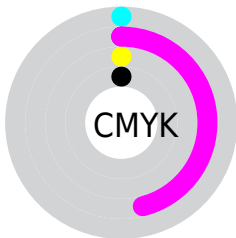
# Distribution



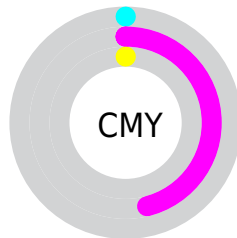
- Red (100%)
- Green (54%)
- Blue (100%)



- Red (100%)
- Yellow (54%)
- Blue (100%)



- Cyan (0%)
- Magenta (46%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (46%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.3713, 0.3180, 0.2161 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 46.3713, 0.3180, 0.2161 by changing the saturation by 10% instead.




 46.3713, 0.3180,  
0.2161


 46.3713, 0.3180,  
0.2161


372.2994, 0.3175,  
0.2664

 32.5389, 0.3176,  
0.2052


 84.7744, 0.3182,  
0.2331

 21.7735, 0.3169,  
0.1921


 110.1139, 0.3182,  
0.2398

 13.6905, 0.3157,  
0.1761


 140.0579, 0.3181,  
0.2457

 7.9057, 0.3134,  
0.1562

174.9909, 0.3180,  
0.2509

 4.0347, 0.3092,  
0.1311

215.2971, 0.3179,  
0.2554

 1.6930, 0.3012,  
0.0992

261.3610, 0.3178,

 0.4191, 0.2873,

0.2595

0.0509

313.5669, 0.3177,  
0.2631

0.0000, 0.2526,  
0.0000

0.0000, 0.0000,  
0.0000

46.3713, 0.3180,  
0.2161

46.3713, 0.3180,  
0.2161

39.9590, 0.3190,  
0.1960

54.4983, 0.3169,  
0.2389

35.1361, 0.3197,  
0.1794

64.4478, 0.3158,  
0.2634

31.7647, 0.3203,  
0.1670

76.3221, 0.3146,  
0.2886

29.6823, 0.3207,  
0.1589

90.2149, 0.3134,  
0.3136

■ 28.6863, 0.3209,  
0.1550

100.0000, 0.3127,  
0.3290

■ 28.4800, 0.3209,  
0.1542

# Harmonies

## Analogous

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



46.3713, 0.2282, 0.1882



46.3713, 0.3180, 0.2161



46.3713, 0.4224, 0.2657

# Triad

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



46.3713, 0.3180, 0.2161



46.3713, 0.4569, 0.4664



46.3713, 0.1576, 0.2868

# Complementary

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



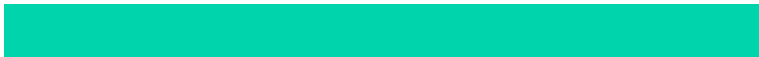
46.3713, 0.3180, 0.2161



78.6449, 0.3058, 0.4754

# 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.



46.3713, 0.2028, 0.3970



46.3713, 0.3180, 0.2161



46.3713, 0.3749, 0.5144

# Square

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



46.3713, 0.3180, 0.2161



46.3713, 0.5056, 0.3972



46.3713, 0.2822, 0.4954



46.3713, 0.1487, 0.2162



# Rectangle

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



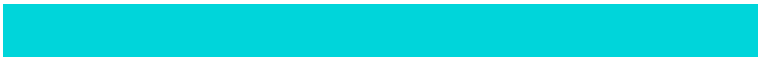
46.3713, 0.3180, 0.2161



46.3713, 0.4779, 0.3067



46.3713, 0.2822, 0.4954



46.3713, 0.1684, 0.3203

# Sweetspot

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



46.3722, 0.3180, 0.2161



79.2997, 0.3143, 0.2943



30.4309, 0.2244, 0.1830



16.3679, 0.3146, 0.2889



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.



46.3722, 0.3180, 0.2161



40.1125, 0.3189, 0.1965



43.1378, 0.3744, 0.2685



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

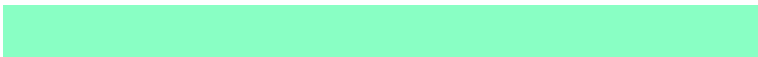
The Inverse Universe completely reimagines the original color for something new.



46.3722, 0.3180, 0.2161



40.1125, 0.3189, 0.1965



80.8242, 0.2778, 0.4006



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 46.3713, 0.3180, 0.2161 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

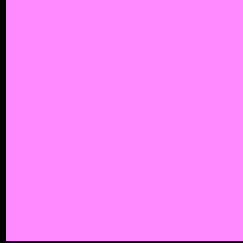
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.3713, 0.3180, 0.2161 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

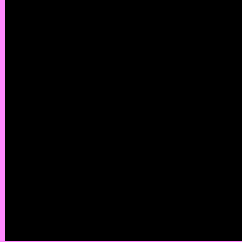
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.3713, 0.3180, 0.2161**

## Background



This preview shows how black text looks on a background with the Yxy color 46.3713, 0.3180, 0.2161.



This preview shows how white text looks on a background with the Yxy color 46.3713, 0.3180, 0.2161.

# 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

46.3713, 0.3180, 0.2161

### Protanopia

46.6283, 0.2456, 0.2382

### Deuteranopia

46.6370, 0.2531, 0.2469



## Tritanopia

46.2116, 0.3866, 0.3161

# Trichromacy



## Original Color

46.3713, 0.3180, 0.2161



## Protanomaly

45.1084, 0.2680, 0.2268



## Deuteranomaly

45.1888, 0.2735, 0.2319



## Tritanomaly

45.9393, 0.3610, 0.2762

# Monochromacy



## Original Color

46.3713, 0.3180, 0.2161



## Achromatopsia

49.1021, 0.3127, 0.3290



## Achromatomaly

46.5573, 0.3151, 0.2787

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.3713, 0.3180, 0.2161 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, 137, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 137, 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, 137, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 137, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.3713, 0.3180, 0.2161 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, 137, 255) }
```

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

```
.border{ border-color:rgb(255, 137, 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, 137, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 137, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 137, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 137,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.3713, 0.3180, 0.2161 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 137, 255) }
```

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

```
.background{ background-color: rgb(255,  
137, 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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