

# Converting Colors

$Y_{xy}(90.2875, 0.3815, 0.2424)$

Have a look what the booklet for  
Yxy(90.2875, 0.3815, 0.2424)  
contains.

<b>Yxy(55.3903, 0.3168, 0.2412)</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(55.3903, 0.3168, 0.2412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA5FF
RGB	255, 165, 255
RGB Percent	100%, 65%, 100%
CMY	0.0000, 0.3530, 0.0000
CMYK	0.00, 0.35, 0.00, 0.00
HSL	300°, 100%, 82%
HSV	300°, 35%, 100%
XYZ	72.7514, 55.3903, 101.5030
YIQ	202.1700, 24.7500, 47.0700

# Conversions

## Conversions Part 2

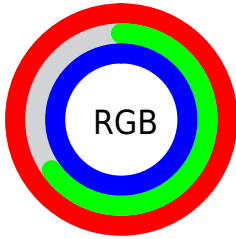
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 165, 255
Decimal	16754175
CIE Lab	79.27, 46.75, -31.12
CIE LCh	79, 56.160, 326.344
Yxy	55.3903, 0.3168, 0.2412
Android (android.graphics.Color)	4294944255 (0xFFFFA5FF)
YUV	202.1700, 26.0452, 46.3319
Hunter-Lab	74.4247, 44.2438, -28.7645

# Details

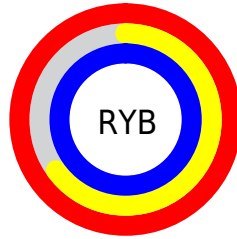
The Yxy color **55.3903, 0.3168, 0.2412** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **82.2355, 0.3077, 0.4358**, and the grayscale version is **58.9951, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1929, 0.3143, 0.2960**, and **27.3164, 0.3166, 0.2223** is the 20% darker color. If you saturate the color by 10%, you get **47.0895, 0.3179, 0.2182**, and if you desaturate by 10%, it is **65.5225, 0.3157, 0.2658**.

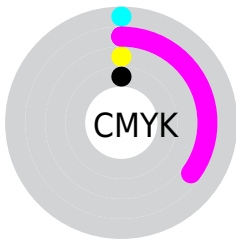
# Distribution



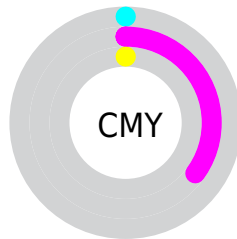
- Red (100%)
- Green (65%)
- Blue (100%)



- Red (100%)
- Yellow (65%)
- Blue (100%)



- Cyan (0%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.3903, 0.3168, 0.2412 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 55.3903, 0.3168, 0.2412 by changing the saturation by 10% instead.





 55.3903, 0.3168,  
0.2412

 55.3903, 0.3168,  
0.2412


407.3897, 0.3161,  
0.2804

 39.7143, 0.3167,  
0.2326


 98.1126, 0.3168,  
0.2545

 27.3159, 0.3164,  
0.2223


 125.9276, 0.3167,  
0.2597

 17.8106, 0.3158,  
0.2095


158.5578, 0.3166,  
0.2643

 10.8141, 0.3147,  
0.1935

196.3876, 0.3165,  
0.2683

 5.9420, 0.3126,  
0.1727

239.8012, 0.3164,  
0.2719

 2.8098, 0.3085,  
0.1452

289.1832, 0.3163,

 1.0333, 0.2996,

0.2750

0.1080

344.9179, 0.3162,  
0.2778

0.0000, 0.2959,  
0.0000

0.0000, 0.0130,  
0.0000

55.3903, 0.3168,  
0.2412

55.3903, 0.3168,  
0.2412

47.0895, 0.3179,  
0.2182

65.5225, 0.3157,  
0.2658

40.5139, 0.3189,  
0.1978

77.5901, 0.3145,  
0.2910

35.5413, 0.3197,  
0.1809

91.6852, 0.3133,  
0.3161

32.0347, 0.3203,  
0.1680

100.0000, 0.3127,  
0.3290

■ 29.8343, 0.3207,  
0.1595

■ 28.7429, 0.3209,  
0.1552

■ 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.



55.3903, 0.2486, 0.2192



55.3903, 0.3168, 0.2412



55.3903, 0.3923, 0.2812

# Triad

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



55.3903, 0.3168, 0.2412



55.3903, 0.4266, 0.4373



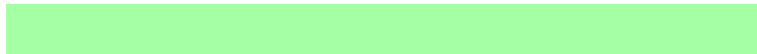
55.3903, 0.1942, 0.3025

# Complementary

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



55.3903, 0.3168, 0.2412



82.2355, 0.3077, 0.4358

# 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.



55.3903, 0.2326, 0.3801



55.3903, 0.3168, 0.2412



55.3903, 0.3662, 0.4649

# Square

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



55.3903, 0.3168, 0.2412



55.3903, 0.4583, 0.3873



55.3903, 0.2951, 0.4462



55.3903, 0.1849, 0.2464



# Rectangle

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



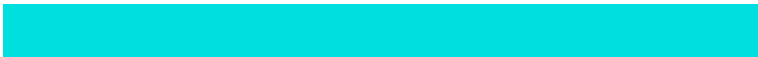
55.3903, 0.3168, 0.2412



55.3903, 0.4327, 0.3145



55.3903, 0.2951, 0.4462



55.3903, 0.2038, 0.3271

# Sweetspot

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



55.3891, 0.3168, 0.2412



83.3908, 0.3140, 0.3018



42.1281, 0.2482, 0.2224



17.4484, 0.3141, 0.2984



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.



55.3891, 0.3168, 0.2412



49.6285, 0.3176, 0.2256



52.8222, 0.3550, 0.2827



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

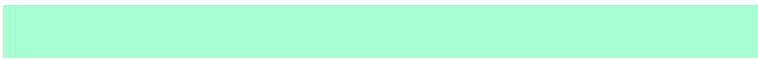
The Inverse Universe completely reimagines the original color for something new.



55.3891, 0.3168, 0.2412



49.6285, 0.3176, 0.2256



84.1721, 0.2847, 0.3809



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 55.3903, 0.3168, 0.2412 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

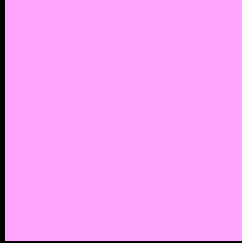
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.3903, 0.3168, 0.2412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

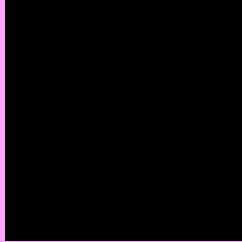
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.3903, 0.3168, 0.2412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.3903, 0.3168, 0.2412.



This preview shows how white text looks on a background with the Yxy color 55.3903, 0.3168, 0.2412.

# 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

55.3903, 0.3168, 0.2412

### Protanopia

55.9535, 0.2625, 0.2605

### Deuteranopia

55.7334, 0.2705, 0.2642



## Tritanopia

55.4207, 0.3616, 0.3141

# Trichromacy



## Original Color

55.3903, 0.3168, 0.2412



## Protanomaly

54.7664, 0.2799, 0.2516



## Deuteranomaly

54.8923, 0.2855, 0.2541



## Tritanomaly

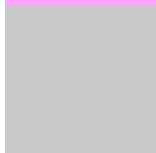
55.1174, 0.3450, 0.2853

# Monochromacy



## Original Color

55.3903, 0.3168, 0.2412



## Achromatopsia

59.0619, 0.3127, 0.3290



## Achromatomaly

56.9878, 0.3144, 0.2934

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.3903, 0.3168, 0.2412 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, 165, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 165, 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, 165, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 165, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 55.3903, 0.3168, 0.2412 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, 165, 255) }
```

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

```
.border{ border-color:rgb(255, 165, 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, 165, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 165, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 165, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 165,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.3903, 0.3168, 0.2412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 165, 255) }
```

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

```
.background{ background-color: rgb(255,  
165, 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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