

# Converting Colors

$Y_{xy}(45.8119, 0.2275, 0.1721)$

Have a look what the booklet for  
Yxy(45.8119, 0.2275, 0.1721)  
contains.

<b>Yxy(41.1577, 0.2584, 0.2163)</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(41.1577, 0.2584, 0.2163)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B59DFF
RGB	181, 157, 255
RGB Percent	71%, 62%, 100%
CMY	0.2900, 0.3843, 0.0000
CMYK	0.29, 0.38, 0.00, 0.00
HSL	255°, 100%, 81%
HSV	255°, 38%, 100%
XYZ	49.1685, 41.1577, 99.9544
YIQ	175.3480, -17.1540, 35.5660

# Conversions

## Conversions Part 2

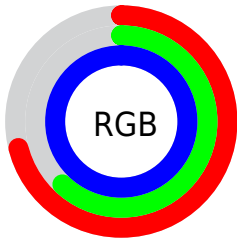
Format	Color
R <sub>Y</sub> B	181, 157, 255
Decimal	11902463
CIE Lab	70.29, 29.45, -45.61
CIE LCh	70, 54.291, 302.855
Yxy	41.1577, 0.2584, 0.2163
Android (android.graphics.Color)	4290092543 (0xFFB59DFF)
YUV	175.3480, 39.2684, 4.9568
Hunter-Lab	64.1543, 24.5343, -47.4677

# Details

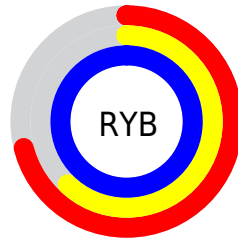
The Yxy color **41.1577, 0.2584, 0.2163** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **90.9297, 0.3540, 0.4305**, and the grayscale version is **42.8616, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.6577, 0.3034, 0.2856**, and **18.6160, 0.2428, 0.1895** is the 20% darker color. If you saturate the color by 10%, you get **31.2450, 0.2406, 0.1829**, and if you desaturate by 10%, it is **53.1952, 0.2750, 0.2489**.

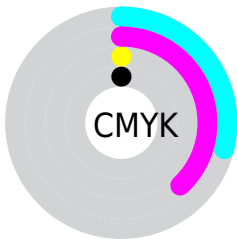
# Distribution



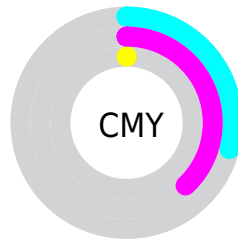
- Red (71%)
- Green (62%)
- Blue (100%)



- Red (71%)
- Yellow (62%)
- Blue (100%)



- Cyan (29%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (29%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.1577, 0.2584, 0.2163 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 41.1577, 0.2584, 0.2163 by changing the saturation by 10% instead.





 41.1577, 0.2584,  
0.2163


 41.1577, 0.2584,  
0.2163


350.9793, 0.2863,  
0.2687

 28.4423, 0.2515,  
0.2045


 76.9232, 0.2686,  
0.2344

 18.6594, 0.2427,  
0.1902


 100.7422, 0.2724,  
0.2414

 11.4244, 0.2311,  
0.1725


129.0311, 0.2756,  
0.2475

 6.3531, 0.2156,  
0.1501

162.1744, 0.2783,  
0.2529

 3.0609, 0.1940,  
0.1216

200.5565, 0.2807,  
0.2576

 1.1636, 0.1626,  
0.0855


244.5617, 0.2828,


 0.0317, 0.1203,


0.2617


0.0051


294.5745, 0.2846,  
0.2654


 0.0000, 0.0000,  
0.0000


 41.1577, 0.2584,  
0.2163


 41.1577, 0.2584,  
0.2163


 31.2450, 0.2406,  
0.1829


 53.1952, 0.2750,  
0.2489

 23.3263, 0.2222,  
0.1504


 67.4681, 0.2899,  
0.2795

 17.2636, 0.2042,  
0.1209

 84.0851, 0.3030,  
0.3076

 12.8988, 0.1878,  
0.0964

99.9996, 0.3127,  
0.3290

 10.0461, 0.1742,  
0.0787

■ 8.4503, 0.1639,  
0.0682

■ 8.2623, 0.1626,  
0.0669

# Harmonies

## Analogous

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



41.1577, 0.2050, 0.2111



41.1577, 0.2584, 0.2163



41.1577, 0.3345, 0.2439

# Triad

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



41.1577, 0.2584, 0.2163



41.1577, 0.4634, 0.4018



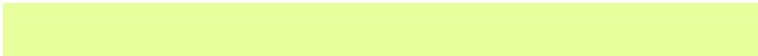
41.1577, 0.2161, 0.3647

# Complementary

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



41.1577, 0.2584, 0.2163



90.9297, 0.3540, 0.4305

# 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.



41.1577, 0.2775, 0.4431



41.1577, 0.2584, 0.2163



41.1577, 0.4209, 0.4526

# Square

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



41.1577, 0.2584, 0.2163



41.1577, 0.4627, 0.3441



41.1577, 0.3525, 0.4750



41.1577, 0.1827, 0.2846



# Rectangle

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



41.1577, 0.2584, 0.2163



41.1577, 0.3886, 0.2725



41.1577, 0.3525, 0.4750



41.1577, 0.2339, 0.3935

# Sweetspot

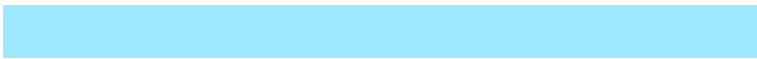
The Sweet Spot groups the original color and five complimentary colors.



41.1593, 0.2584, 0.2163



77.8871, 0.2985, 0.2979



72.1713, 0.2553, 0.3028



16.2013, 0.2968, 0.2942



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.



41.1593, 0.2584, 0.2163



33.4704, 0.2450, 0.1910



47.9656, 0.2957, 0.2274



17.5930, 0.3017, 0.3047



4.3753, 0.1639, 0.0676



0.4744, 0.1747, 0.0736



# Inverse Universe

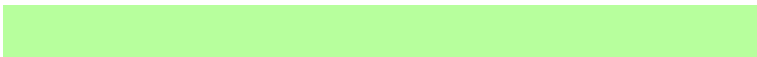
The Inverse Universe completely reimagines the original color for something new.



51.1363, 0.3374, 0.2548



44.8538, 0.3438, 0.2408



84.0326, 0.3226, 0.4416



18.2197, 0.3176, 0.3112



13.1322, 0.3949, 0.1949

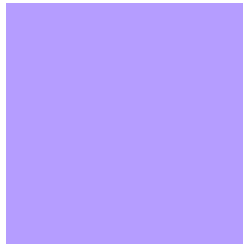


1.2959, 0.3846, 0.1892



# Previews

## White Background



This preview shows how the Yxy color 41.1577, 0.2584, 0.2163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

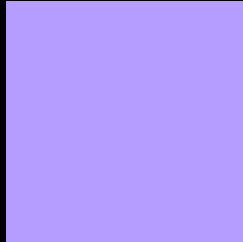
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.1577, 0.2584, 0.2163 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

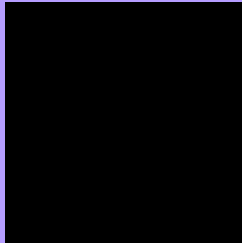
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.1577, 0.2584, 0.2163**

## Background



This preview shows how black text looks on a background with the Yxy color 41.1577, 0.2584, 0.2163.



This preview shows how white text looks on a background with the Yxy color 41.1577, 0.2584, 0.2163.

# 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

41.1577, 0.2584, 0.2163

### Protanopia

41.3467, 0.2345, 0.2234

### Deuteranopia

41.5574, 0.2341, 0.2283



## Tritanopia

41.2233, 0.2978, 0.3112

# Trichromacy



## Original Color

41.1577, 0.2584, 0.2163

## Protanomaly

41.1982, 0.2423, 0.2208

## Deuteranomaly

41.2343, 0.2423, 0.2235

## Tritanomaly

41.0612, 0.2827, 0.2734

# Monochromacy



## Original Color

41.1577, 0.2584, 0.2163

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

41.7120, 0.2914, 0.2825

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.1577, 0.2584, 0.2163 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(181, 157, 255)` looks like.

```
.text, #text, p{  
    color:rgb(181, 157, 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(181, 157, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 157, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 41.1577, 0.2584, 0.2163 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(181, 157, 255) }
```

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

```
.border{ border-color:rgb(181, 157, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 157, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 157, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 157, 255);  
box-shadow:4px 4px 4px 4px rgb(181, 157,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.1577, 0.2584, 0.2163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 157, 255) }
```

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

```
.background{ background-color: rgb(181,  
157, 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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