

# Converting Colors

$Y_{xy}(47.5524, 0.2592, 0.2059)$

Have a look what the booklet for  
Yxy(47.5524, 0.2592, 0.2059)  
contains.

<b>Yxy(45.6172, 0.2747, 0.2265)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(45.6172, 0.2747, 0.2265)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CAA2FF
RGB	202, 162, 255
RGB Percent	79%, 64%, 100%
CMY	0.2078, 0.3647, 0.0002
CMYK	0.21, 0.36, 0.00, 0.00
HSL	266°, 100%, 82%
HSV	266°, 36%, 100%
XYZ	55.3247, 45.6172, 100.4585
YIQ	184.5620, -6.0130, 37.4030

# Conversions

## Conversions Part 2

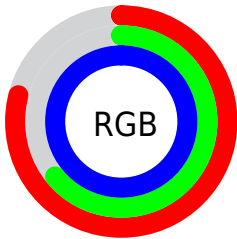
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	202, 162, 255
Decimal	13279999
CIE Lab	73.30, 32.58, -40.74
CIE LCh	73, 52.166, 308.644
Yxy	45.6172, 0.2747, 0.2265
Android (android.graphics.Color)	4291470079 (0xFFCAA2FF)
YUV	184.5620, 34.7259, 15.2931
Hunter-Lab	67.5405, 28.0195, -40.9085

# Details

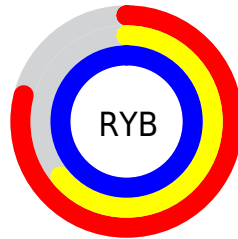
The Yxy color  $45.6172, 0.2747, 0.2265$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $88.5390, 0.3405, 0.4290$ , and the grayscale version is  $48.0682, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $78.1057, 0.3145, 0.2920$ , and  $21.3401, 0.2629, 0.2031$  is the 20% darker color. If you saturate the color by 10%, you get  $35.5973, 0.2611, 0.1955$ , and if you desaturate by 10%, it is  $57.6521, 0.2870, 0.2570$ .

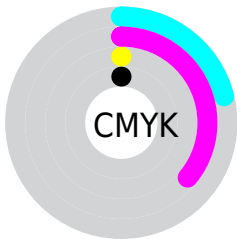
# Distribution



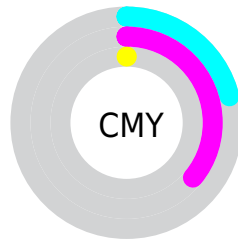
- Red (79%)
- Green (64%)
- Blue (100%)



- Red (79%)
- Yellow (64%)
- Blue (100%)



- Cyan (21%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)




- Cyan (21%)
- Magenta (36%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6172, 0.2747, 0.2265 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 45.6172, 0.2747, 0.2265 by changing the saturation by 10% instead.





 45.6172, 0.2747,  
0.2265


 45.6172, 0.2747,  
0.2265


369.2675, 0.2944,  
0.2736

 31.9439, 0.2697,  
0.2160


 83.6458, 0.2819,  
0.2427

 21.3186, 0.2634,  
0.2032


 108.7699, 0.2846,  
0.2490

 13.3571, 0.2551,  
0.1872


138.4796, 0.2869,  
0.2545

 7.6749, 0.2437,  
0.1671

173.1594, 0.2888,  
0.2593

 3.8876, 0.2275,  
0.1412

213.1938, 0.2905,  
0.2636

 1.6109, 0.2032,  
0.1074

258.9669, 0.2920,

 0.3649, 0.1670,

0.2673

0.0517

310.8634, 0.2932,  
0.2706

0.0000, 0.0348,  
0.0000

0.0000, 0.0000,  
0.0000

45.6172, 0.2747,  
0.2265

45.6172, 0.2747,  
0.2265

35.5973, 0.2611,  
0.1955

57.6521, 0.2870,  
0.2570

27.4709, 0.2465,  
0.1653

71.8030, 0.2979,  
0.2860

21.1117, 0.2316,  
0.1376

88.1704, 0.3074,  
0.3129

16.3749, 0.2169,  
0.1140

99.9971, 0.3127,  
0.3290

■ 13.0914, 0.2033,  
0.0959

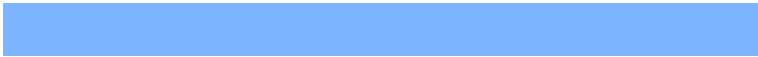
■ 11.0510, 0.1914,  
0.0840

■ 10.5162, 0.1876,  
0.0807

# Harmonies

## Analogous

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



45.6172, 0.2195, 0.2174



45.6172, 0.2747, 0.2265



45.6172, 0.3480, 0.2563

# Triad

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



45.6172, 0.2747, 0.2265



45.6172, 0.4488, 0.4086



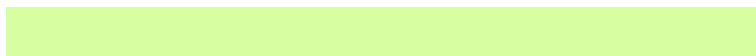
45.6172, 0.2143, 0.3471

# Complementary

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



45.6172, 0.2747, 0.2265



88.5390, 0.3405, 0.4290

# 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.



45.6172, 0.2678, 0.4224



45.6172, 0.2747, 0.2265



45.6172, 0.4036, 0.4517

# Square

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



45.6172, 0.2747, 0.2265



45.6172, 0.4560, 0.3547



45.6172, 0.3372, 0.4625



45.6172, 0.1879, 0.2765



# Rectangle

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



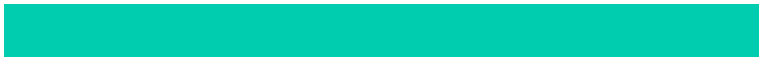
45.6172, 0.2747, 0.2265



45.6172, 0.3968, 0.2852



45.6172, 0.3372, 0.4625



45.6172, 0.2294, 0.3736

# Sweetspot

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



45.6190, 0.2747, 0.2265



80.4859, 0.3033, 0.3009



64.1271, 0.2551, 0.2843



16.7537, 0.3020, 0.2973



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.



45.6190, 0.2747, 0.2265



37.8941, 0.2645, 0.2031



52.8723, 0.3107, 0.2367



17.7600, 0.3046, 0.3049



5.5812, 0.1893, 0.0817



0.6064, 0.2019, 0.0886



# Inverse Universe

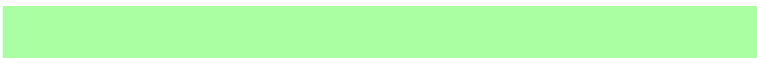
The Inverse Universe completely reimagines the original color for something new.



51.9978, 0.3510, 0.2748



45.3353, 0.3622, 0.2637



82.6189, 0.3120, 0.4384



18.1605, 0.3205, 0.3155



12.2113, 0.4671, 0.2347

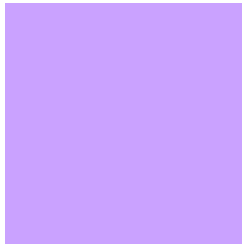


1.2109, 0.4457, 0.2229



# Previews

## White Background



This preview shows how the Yxy color 45.6172, 0.2747, 0.2265 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

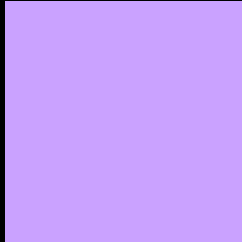
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6172, 0.2747, 0.2265 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 45.6172, 0.2747, 0.2265**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6172, 0.2747, 0.2265.



This preview shows how white text looks on a background with the Yxy color 45.6172, 0.2747, 0.2265.

# 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

45.6172, 0.2747, 0.2265

### Protanopia

46.0294, 0.2441, 0.2366

### Deuteranopia

45.9370, 0.2463, 0.2397



## Tritanopia

45.8012, 0.3152, 0.3125

# Trichromacy



## Original Color

45.6172, 0.2747, 0.2265



## Protanomaly

45.4957, 0.2541, 0.2320



## Deuteranomaly

45.4811, 0.2559, 0.2341



## Tritanomaly

45.5320, 0.2997, 0.2780

# Monochromacy



## Original Color

45.6172, 0.2747, 0.2265



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

47.1738, 0.2987, 0.2885

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6172, 0.2747, 0.2265 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(202, 162, 255)` looks like.

```
.text, #text, p{  
    color:rgb(202, 162, 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(202, 162, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 162, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6172, 0.2747, 0.2265 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(202, 162, 255) }
```

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

```
.border{ border-color:rgb(202, 162, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 162, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 162, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 162, 255);  
box-shadow:4px 4px 4px 4px rgb(202, 162,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6172, 0.2747, 0.2265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 162, 255) }
```

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

```
.background{ background-color: rgb(202,  
162, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor