

# Converting Colors

$Y_{xy}(45.7153, 0.2529, 0.2448)$

Have a look what the booklet for  
Yxy(45.7153, 0.2529, 0.2448)  
contains.

<b>Yxy(45.7795, 0.2533, 0.2454)</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(45.7795, 0.2533, 0.2454)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2B1F6
RGB	162, 177, 246
RGB Percent	64%, 69%, 96%
CMY	0.3647, 0.3058, 0.0354
CMYK	0.34, 0.28, 0.00, 0.04
HSL	229°, 82%, 80%
HSV	229°, 34%, 96%
XYZ	47.2532, 45.7795, 93.5178
YIQ	180.3810, -31.0890, 18.2790

# Conversions

## Conversions Part 2

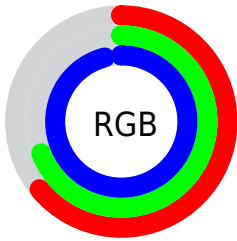
Format	Color
<a href="#">RYB</a>	162, 175, 246
Decimal	10662390
CIELab	73.40, 10.74, -35.97
CIELCh	73, 37.539, 286.628
Yxy	45.7795, 0.2533, 0.2454
Android (android.graphics.Color)	4288852470 (0xFFA2B1F6)
YUV	180.3810, 32.3502, -16.1201
Hunter-Lab	67.6605, 6.2561, -34.5859

# Details

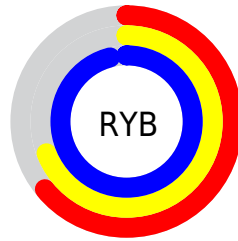
The Yxy color  $45.7795, 0.2533, 0.2454$  is a light color, and the websafe version is hex  $9999CC$ . A complement of this color would be  $79.3313, 0.3690, 0.4005$ , and the grayscale version is  $45.6929, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $80.5579, 0.2904, 0.3062$ , and  $21.4672, 0.2373, 0.2256$  is the 20% darker color. If you saturate the color by 10%, you get  $36.0536, 0.2335, 0.2157$ , and if you desaturate by 10%, it is  $57.1940, 0.2723, 0.2731$ .

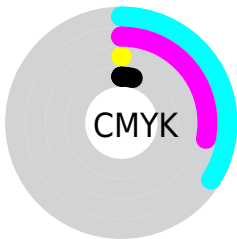
# Distribution



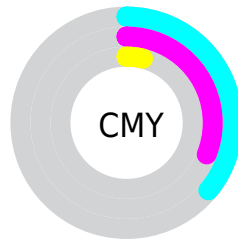
- Red (64%)
- Green (69%)
- Blue (96%)



- Red (64%)
- Yellow (69%)
- Blue (96%)



- Cyan (34%)
- Magenta (28%)
- Yellow (0%)
- Black (4%)



- Cyan (36%)
- Magenta (31%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7795, 0.2533, 0.2454 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 45.7795, 0.2533, 0.2454 by changing the saturation by 10% instead.



■ 45.7795, 0.2533,  
0.2454

■ 45.7795, 0.2533,  
0.2454

369.9215, 0.2826,  
0.2853

■ 32.0719, 0.2462,  
0.2361

■ 83.8889, 0.2638,  
0.2594

■ 21.4164, 0.2373,  
0.2246

■ 109.0595, 0.2678,  
0.2648

■ 13.4287, 0.2258,  
0.2100

138.8198, 0.2712,  
0.2694

■ 7.7244, 0.2105,  
0.1910

173.5542, 0.2741,  
0.2735

■ 3.9191, 0.1892,  
0.1656

213.6472, 0.2767,  
0.2770

■ 1.6284, 0.1585,  
0.1307


259.4832, 0.2789,

■ 0.3766, 0.1117,

0.2801


0.0679


311.4464, 0.2809,  
0.2828

 0.0000, 0.0000,  
0.0000

 45.7795, 0.2533,  
0.2454


 45.7795, 0.2533,  
0.2454

 36.0536, 0.2335,  
0.2157


 57.1940, 0.2723,  
0.2731


 27.9298, 0.2138,  
0.1848


 70.3675, 0.2901,  
0.2982

 21.3217, 0.1952,  
0.1543

 85.3726, 0.3064,  
0.3205

 16.1325, 0.1789,  
0.1259

 99.4326, 0.3179,  
0.3376

 12.2535, 0.1660,  
0.1014

■ 9.5585, 0.1573,  
0.0825

■ 8.4518, 0.1540,  
0.0742

# Harmonies

## Analogous

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



45.7795, 0.2248, 0.2533



45.7795, 0.2533, 0.2454



45.7795, 0.2993, 0.2565

# Triad

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



45.7795, 0.2533, 0.2454



45.7795, 0.4180, 0.3622



45.7795, 0.2691, 0.3817

# Complementary

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



45.7795, 0.2533, 0.2454



79.3313, 0.3690, 0.4005

# 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.



45.7795, 0.3189, 0.4182



45.7795, 0.2533, 0.2454



45.7795, 0.4065, 0.4000

# Square

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



45.7795, 0.2533, 0.2454



45.7795, 0.3983, 0.3206



45.7795, 0.3694, 0.4230



45.7795, 0.2329, 0.3288



# Rectangle

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



45.7795, 0.2533, 0.2454



45.7795, 0.3353, 0.2729



45.7795, 0.3694, 0.4230



45.7795, 0.2847, 0.3968

# Sweetspot

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



45.7813, 0.2533, 0.2454



82.8392, 0.2971, 0.3077



79.3264, 0.2718, 0.3466



17.2499, 0.2947, 0.3045



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.



45.7813, 0.2533, 0.2454



42.1745, 0.2396, 0.2250



43.2584, 0.2703, 0.2319



16.4056, 0.2979, 0.3089



4.6546, 0.1545, 0.0763



0.5398, 0.1602, 0.0967



# Inverse Universe

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



48.6031, 0.3789, 0.3129



46.0864, 0.3990, 0.3096



83.6278, 0.3455, 0.4200



16.5309, 0.3265, 0.3248



10.5693, 0.6130, 0.3150



0.9421, 0.5808, 0.2973



# Previews

## White Background



This preview shows how the Yxy color 45.7795, 0.2533, 0.2454 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

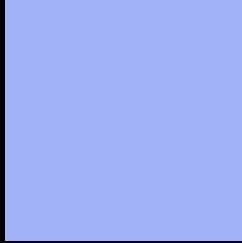
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7795, 0.2533, 0.2454 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

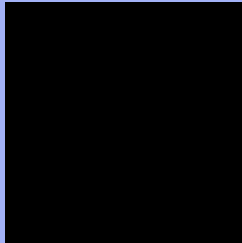
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.7795, 0.2533, 0.2454**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.7795, 0.2533, 0.2454.



This preview shows how white text looks on a background with the Yxy color 45.7795, 0.2533, 0.2454.

# 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

45.7795, 0.2533, 0.2454

### Protanopia

45.9682, 0.2522, 0.2463

### Deuteranopia

45.9682, 0.2522, 0.2463



## Tritanopia

45.9633, 0.2761, 0.3100

# Trichromacy



## Original Color

45.7795, 0.2533, 0.2454

## Protanomaly

46.0717, 0.2528, 0.2465

## Deuteranomaly

46.0717, 0.2528, 0.2465

## Tritanomaly

45.9446, 0.2675, 0.2847

# Monochromacy



## Original Color

45.7795, 0.2533, 0.2454

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.4841, 0.2886, 0.2967

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7795, 0.2533, 0.2454 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(162, 177, 246)` looks like.

```
.text, #text, p{  
    color:rgb(162, 177, 246)  
}
```

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(162, 177, 246) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 177, 246) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7795, 0.2533, 0.2454 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(162, 177, 246) }
```

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

```
.border{ border-color:rgb(162, 177, 246) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 177, 246)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 177, 246); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 177, 246);  
box-shadow:4px 4px 4px 4px rgb(162, 177,  
246) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7795, 0.2533, 0.2454 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 177, 246) }
```

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

```
.background{ background-color: rgb(162,  
177, 246) }
```

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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