

# Converting Colors

$Y_{xy}(35.7591, 0.2505, 0.2829)$

Have a look what the booklet for  
Yxy(35.7591, 0.2505, 0.2829)  
contains.

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# Color

**Yxy(35.6125, 0.2499, 0.2816)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76A7C7
RGB	118, 167, 199
RGB Percent	46%, 65%, 78%
CMY	0.5371, 0.3451, 0.2196
CMYK	0.41, 0.16, 0.00, 0.22
HSL	204°, 42%, 62%
HSV	204°, 41%, 78%
XYZ	31.6036, 35.6125, 59.2488
YIQ	155.9970, -39.4760, -0.4360

# Conversions

## Conversions Part 2

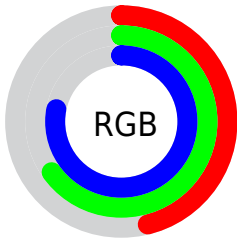
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	118, 149, 199
Decimal	7776199
CIE Lab	66.22, -8.02, -21.52
CIE LCh	66, 22.962, 249.570
Yxy	35.6125, 0.2499, 0.2816
Android (android.graphics.Color)	4285966279 (0xFF76A7C7)
YUV	155.9970, 21.2005, -33.3234
Hunter-Lab	59.6762, -9.9026, -17.0920

# Details

The Yxy color **35.6125, 0.2499, 0.2816** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **35.2845, 0.3973, 0.3714**, and the grayscale version is **33.1655, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.3468, 0.2621, 0.2917**, and **15.3958, 0.2310, 0.2663** is the 20% darker color. If you saturate the color by 10%, you get **31.5678, 0.2354, 0.2675**, and if you desaturate by 10%, it is **40.1294, 0.2651, 0.2949**.

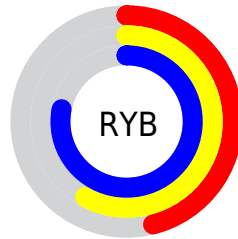
# Distribution



Red (46%)

Green (65%)

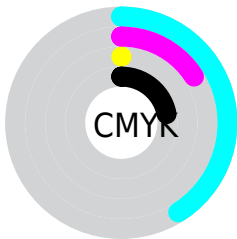
Blue (78%)



Red (46%)

Yellow (58%)

Blue (78%)

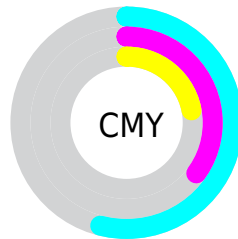


Cyan (41%)

Magenta (16%)

Yellow (0%)

Black (22%)



Cyan (54%)

Magenta (35%)

Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.6125, 0.2499, 0.2816 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 35.6125, 0.2499, 0.2816 by changing the saturation by 10% instead.



■ 35.6125, 0.2499,  
0.2816

■ 35.6125, 0.2499,  
0.2816

■ 327.2637, 0.2819,  
0.3065

■ 24.1351, 0.2418,  
0.2751

■ 68.4335, 0.2617,  
0.2909

■ 15.4338, 0.2313,  
0.2665

■ 90.5460, 0.2660,  
0.2943

■ 9.1244, 0.2173,  
0.2549

■ 116.9722, 0.2697,  
0.2971

■ 4.8224, 0.1978,  
0.2382

■ 148.0965, 0.2729,  
0.2996

■ 2.1435, 0.1691,  
0.2127

■ 184.3035, 0.2756,  
0.3017

■ 0.6889, 0.1130,  
0.1695

■ 225.9774, 0.2780,

■ 0.0000, 0.0000,

0.3035

0.0000

273.5026, 0.2801,  
0.3051

■ 35.6125, 0.2499,  
0.2816

■ 35.6125, 0.2499,  
0.2816

■ 31.5678, 0.2354,  
0.2675

■ 40.1294, 0.2651,  
0.2949

■ 27.9694, 0.2221,  
0.2527

■ 45.1344, 0.2807,  
0.3071

■ 24.7947, 0.2103,  
0.2375

■ 50.6476, 0.2963,  
0.3183

■ 22.0169, 0.2004,  
0.2221

■ 56.6864, 0.3117,  
0.3283

■ 19.6042, 0.1926,  
0.2070

■ 63.2673, 0.3266,  
0.3374

■ 17.6337, 0.1870,  
0.1933

■ 70.4063, 0.3408,  
0.3454

■ 77.6699, 0.3527,  
0.3526

■ 81.9505, 0.3510,  
0.3603

■ 86.4287, 0.3494,  
0.3679

# Harmonies

## Analogous

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



35.6125, 0.2487, 0.3052



35.6125, 0.2499, 0.2816



35.6125, 0.2667, 0.2718

# Triad

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



35.6125, 0.2499, 0.2816



35.6125, 0.3636, 0.3177



35.6125, 0.3262, 0.3895

# Complementary

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



35.6125, 0.2499, 0.2816



35.2845, 0.3973, 0.3714

# 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.



35.6125, 0.3586, 0.3897



35.6125, 0.2499, 0.2816



35.6125, 0.3813, 0.3466

# Square

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



35.6125, 0.2499, 0.2816



35.6125, 0.3318, 0.2925



35.6125, 0.3791, 0.3730



35.6125, 0.2915, 0.3701



# Rectangle

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



35.6125, 0.2499, 0.2816



35.6125, 0.2853, 0.2731



35.6125, 0.3791, 0.3730



35.6125, 0.3378, 0.3918

# Sweetspot

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



35.6139, 0.2499, 0.2816



87.1726, 0.2940, 0.3167



46.8800, 0.2874, 0.4042



18.3774, 0.2920, 0.3152



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

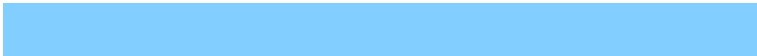


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



35.6139, 0.2499, 0.2816



55.9158, 0.2368, 0.2689



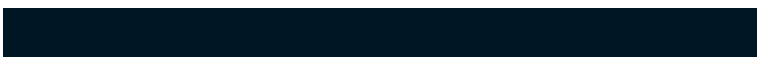
23.2833, 0.2402, 0.2198



11.3364, 0.2984, 0.3196



11.5121, 0.1876, 0.1953



0.6836, 0.1962, 0.2262



# Inverse Universe

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



27.9000, 0.3528, 0.2660



41.6750, 0.3656, 0.2526



50.0925, 0.3772, 0.4185



10.7428, 0.3197, 0.3151



8.7021, 0.4507, 0.2256



0.4260, 0.4167, 0.2069



# Previews

## White Background



This preview shows how the Yxy color 35.6125, 0.2499, 0.2816 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

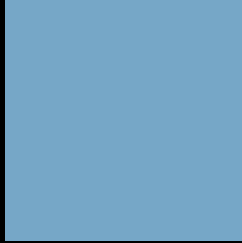
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.6125, 0.2499, 0.2816 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

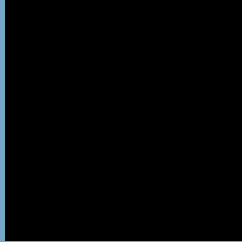
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

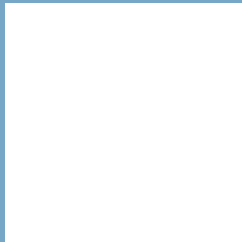
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 35.6125, 0.2499, 0.2816**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.6125, 0.2499, 0.2816.

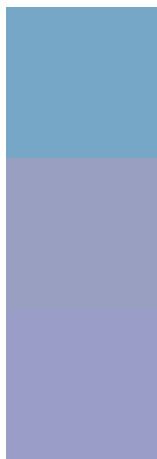


This preview shows how white text looks on a background with the Yxy color 35.6125, 0.2499, 0.2816.

# 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

35.6125, 0.2499, 0.2816

### Protanopia

35.4188, 0.2790, 0.2811

### Deuteranopia

35.2996, 0.2745, 0.2683



## Tritanopia

35.7458, 0.2580, 0.3089

# Trichromacy



## Original Color

35.6125, 0.2499, 0.2816

## Protanomaly

35.3562, 0.2673, 0.2814

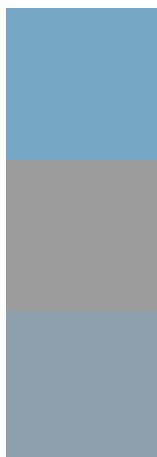
## Deuteranomaly

35.4107, 0.2653, 0.2736

## Tritanomaly

35.6949, 0.2546, 0.2985

# Monochromacy



## Original Color

35.6125, 0.2499, 0.2816

## Achromatopsia

33.2452, 0.3127, 0.3290

## Achromatomaly

33.8710, 0.2861, 0.3108

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  35.6125, 0.2499, 0.2816 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(118, 167, 199)` looks like.

```
.text, #text, p{  
    color:rgb(118, 167, 199)  
}
```

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(118, 167, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 167, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 35.6125, 0.2499, 0.2816 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(118, 167, 199) }
```

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

```
.border{ border-color:rgb(118, 167, 199) }
```

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

Here you see how a box with a 4 pixel rgb(118, 167, 199) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 167, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 167, 199);  
box-shadow:4px 4px 4px 4px rgb(118, 167,  
199) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.6125, 0.2499, 0.2816 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 167, 199) }
```

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

```
.background{ background-color: rgb(118,  
167, 199) }
```

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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