

# Converting Colors

$Y_{xy}(36.6220, 0.2518, 0.2602)$

Have a look what the booklet for  
Yxy(36.6220, 0.2518, 0.2602)  
contains.

<b>Yxy(36.5569, 0.2515, 0.2597)</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(36.5569, 0.2515, 0.2597)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	87A4D6
RGB	135, 164, 214
RGB Percent	53%, 64%, 84%
CMY	0.4706, 0.3568, 0.1608
CMYK	0.37, 0.23, 0.00, 0.16
HSL	218°, 49%, 68%
HSV	218°, 37%, 84%
XYZ	35.4026, 36.5569, 68.8064
YIQ	161.0290, -33.3340, 9.4020

# Conversions

## Conversions Part 2

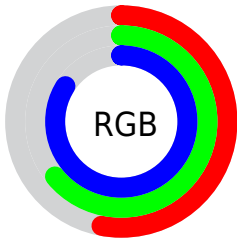
Format	Color
<a href="#">RYB</a>	<a href="#">135, 156, 214</a>
Decimal	<a href="#">8889558</a>
CIELab	<a href="#">66.94, 2.24, -28.62</a>
CIElCh	<a href="#">67, 28.709, 274.469</a>
Yxy	<a href="#">36.5569, 0.2515, 0.2597</a>
Android (android.graphics.Color)	<a href="#">4287079638 (0xFF87A4D6)</a>
YUV	<a href="#">161.0290, 26.1147, -22.8274</a>
Hunter-Lab	<a href="#">60.4623, -1.2915, -25.1487</a>

# Details

The Yxy color **36.5569, 0.2515, 0.2597** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **50.7339, 0.3795, 0.3894**, and the grayscale version is **35.5426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.8302, 0.2716, 0.2893**, and **15.8854, 0.2337, 0.2390** is the 20% darker color. If you saturate the color by 10%, you get **30.3669, 0.2339, 0.2367**, and if you desaturate by 10%, it is **43.6225, 0.2690, 0.2811**.

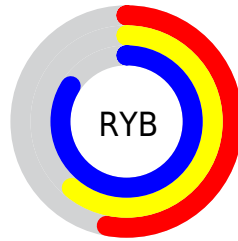
# Distribution



Red (53%)

Green (64%)

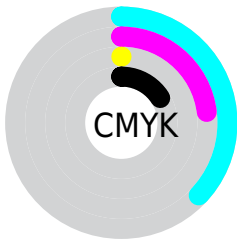
Blue (84%)



Red (53%)

Yellow (61%)

Blue (84%)

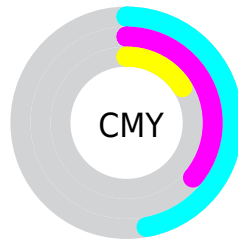


Cyan (37%)

Magenta (23%)

Yellow (0%)

Black (16%)



Cyan (47%)

Magenta (36%)

Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.5569, 0.2515, 0.2597 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 36.5569, 0.2515, 0.2597 by changing the saturation by 10% instead.



■ 36.5569, 0.2515,  
0.2597

■ 36.5569, 0.2515,  
0.2597

331.3881, 0.2827,  
0.2948

■ 24.8646, 0.2436,  
0.2509

■ 69.8908, 0.2629,  
0.2725

■ 15.9762, 0.2335,  
0.2397

■ 92.3011, 0.2672,  
0.2773

■ 9.5073, 0.2201,  
0.2249

■ 119.0530, 0.2708,  
0.2813

■ 5.0735, 0.2016,  
0.2046

150.5307, 0.2739,  
0.2848

■ 2.2905, 0.1748,  
0.1754

187.1187, 0.2765,  
0.2878

■ 0.7687, 0.1338,  
0.1310

229.2013, 0.2788,

■ 0.0000, 0.0000,

0.2904

0.0000

277.1630, 0.2809,  
0.2927

■ 36.5569, 0.2515,  
0.2597

■ 36.5569, 0.2515,  
0.2597

■ 30.3669, 0.2339,  
0.2367

■ 43.6225, 0.2690,  
0.2811

■ 25.0105, 0.2169,  
0.2126

■ 51.5944, 0.2860,  
0.3005

■ 20.4487, 0.2010,  
0.1881

■ 60.5072, 0.3021,  
0.3180

■ 16.6365, 0.1871,  
0.1640

■ 70.3920, 0.3173,  
0.3336

■ 13.5235, 0.1758,  
0.1413

■ 81.2784, 0.3313,  
0.3473

■ 11.0483, 0.1676,  
0.1210

■ 91.5694, 0.3384,  
0.3599

■ 10.3890, 0.1654,  
0.1153

■ 97.6349, 0.3370,  
0.3691

# Harmonies

## Analogous

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



36.5569, 0.2343, 0.2740



36.5569, 0.2515, 0.2597



36.5569, 0.2851, 0.2625

# Triad

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



36.5569, 0.2515, 0.2597



36.5569, 0.3958, 0.3436



36.5569, 0.2930, 0.3863

# Complementary

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



36.5569, 0.2515, 0.2597



50.7339, 0.3795, 0.3894

# 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.



36.5569, 0.3361, 0.4066



36.5569, 0.2515, 0.2597



36.5569, 0.3971, 0.3773

# Square

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



36.5569, 0.2515, 0.2597



36.5569, 0.3701, 0.3090



36.5569, 0.3746, 0.4016



36.5569, 0.2569, 0.3471



# Rectangle

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



36.5569, 0.2515, 0.2597



36.5569, 0.3135, 0.2728



36.5569, 0.3746, 0.4016



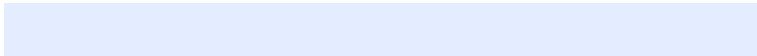
36.5569, 0.3072, 0.3958

# Sweetspot

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



36.5583, 0.2515, 0.2597



84.2573, 0.2955, 0.3109



56.6905, 0.2784, 0.3700



17.6456, 0.2933, 0.3085



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.



36.5583, 0.2515, 0.2597



47.3265, 0.2383, 0.2426



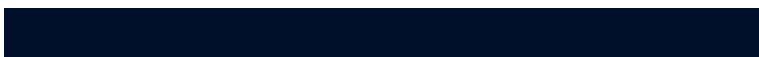
28.1275, 0.2530, 0.2201



12.7482, 0.2982, 0.3138



6.4619, 0.1661, 0.1180



0.5453, 0.1759, 0.1530



# Inverse Universe

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



34.3011, 0.3687, 0.2935



44.3060, 0.3857, 0.2863



62.7887, 0.3604, 0.4227



12.4955, 0.3234, 0.3205



8.9972, 0.5495, 0.2801

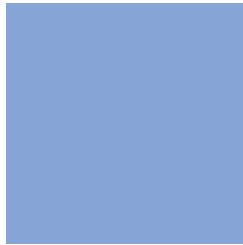


0.5584, 0.5020, 0.2539



# Previews

## White Background



This preview shows how the Yxy color 36.5569, 0.2515, 0.2597 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

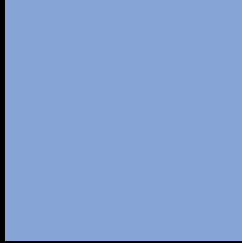
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.5569, 0.2515, 0.2597 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

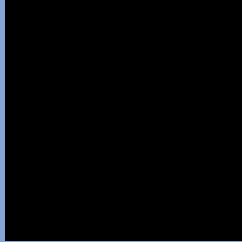
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

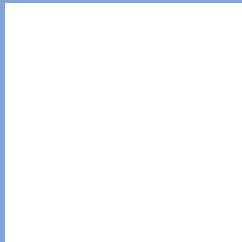
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.5569, 0.2515, 0.2597**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.5569, 0.2515, 0.2597.



This preview shows how white text looks on a background with the Yxy color 36.5569, 0.2515, 0.2597.

# 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

36.5569, 0.2515, 0.2597

### Protanopia

36.5824, 0.2631, 0.2609

### Deuteranopia

36.5319, 0.2611, 0.2549



## Tritanopia

36.7575, 0.2679, 0.3094

# Trichromacy



## Original Color

36.5569, 0.2515, 0.2597

## Protanomaly

36.5234, 0.2589, 0.2604

## Deuteranomaly

36.4158, 0.2575, 0.2556

## Tritanomaly

36.7256, 0.2623, 0.2910

# Monochromacy



## Original Color

36.5569, 0.2515, 0.2597

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

35.8113, 0.2885, 0.3029

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.5569, 0.2515, 0.2597 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(135, 164, 214)` looks like.

```
.text, #text, p{  
    color:rgb(135, 164, 214)  
}
```

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(135, 164, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 164, 214) }
```

## Border

The CSS property to change the border of an element to Yxy 36.5569, 0.2515, 0.2597 is called "border". The border property can be set on classes, ids or directly on the HTML element.

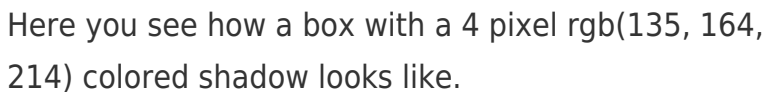
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(135, 164, 214) }
```

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

```
.border{ border-color:rgb(135, 164, 214) }
```

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



Here you see how a box with a 4 pixel `rgb(135, 164, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 164, 214); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 164, 214); box-shadow:4px 4px 4px 4px rgb(135, 164, 214) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.5569, 0.2515, 0.2597 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 164, 214) }
```

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

```
.background{ background-color: rgb(135,  
164, 214) }
```

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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