

# Converting Colors

$Y_{xy}(42.1878, 0.2177, 0.2310)$

Have a look what the booklet for  
Yxy(42.1878, 0.2177, 0.2310)  
contains.

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# Color

**Yxy(42.0038, 0.2177, 0.2304)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68B2FF
RGB	104, 178, 255
RGB Percent	41%, 70%, 100%
CMY	0.5917, 0.3020, 0.0000
CMYK	0.59, 0.30, 0.00, 0.00
HSL	211°, 100%, 70%
HSV	211°, 59%, 100%
XYZ	39.6885, 42.0038, 100.6159
YIQ	164.6520, -68.8210, 8.2590

# Conversions

## Conversions Part 2

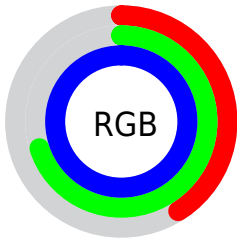
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">104, 154, 255</a>
Decimal	<a href="#">6861567</a>
CIELab	<a href="#">70.87, -0.74, -45.02</a>
CIELCh	<a href="#">71, 45.028, 269.064</a>
Yxy	<a href="#">42.0038, 0.2177, 0.2304</a>
Android (android.graphics.Color)	<a href="#">4285051647 (0xFF68B2FF)</a>
YUV	<a href="#">164.6520, 44.5416, -53.1918</a>
Hunter-Lab	<a href="#">64.8103, -4.1085, -46.6785</a>

# Details

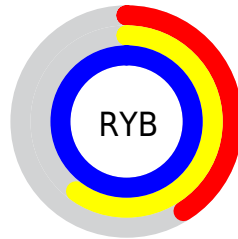
The Yxy color **42.0038, 0.2177, 0.2304** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **55.3629, 0.4424, 0.4062**, and the grayscale version is **37.2736, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.4972, 0.2594, 0.3041**, and **19.2319, 0.1936, 0.2056** is the 20% darker color. If you saturate the color by 10%, you get **35.7653, 0.2039, 0.2102**, and if you desaturate by 10%, it is **49.1980, 0.2330, 0.2501**.

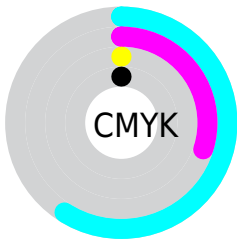
# Distribution



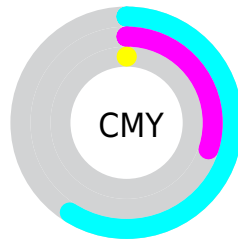
- Red (41%)
- Green (70%)
- Blue (100%)



- Red (41%)
- Yellow (60%)
- Blue (100%)



- Cyan (59%)
- Magenta (30%)
- Yellow (0%)
- Black (0%)




- Cyan (59%)
- Magenta (30%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0038, 0.2177, 0.2304 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 42.0038, 0.2177, 0.2304 by changing the saturation by 10% instead.





 42.0038, 0.2177,  
0.2304

 42.0038, 0.2177,  
0.2304

354.4987, 0.2637,  
0.2783


 29.1043, 0.2070,  
0.2192


 78.2054, 0.2339,  
0.2473

 19.1597, 0.1937,  
0.2053


 102.2762, 0.2402,  
0.2538

 11.7857, 0.1769,  
0.1878


 130.8396, 0.2455,  
0.2594

 6.5980, 0.1554,  
0.1653

164.2799, 0.2502,  
0.2642

 3.2120, 0.1273,  
0.1358

202.9816, 0.2542,  
0.2684

 1.2434, 0.0907,  
0.0973

247.3290, 0.2578,

 0.0967, 0.0129,

0.2721

0.0169

297.7066, 0.2609,  
0.2754

0.0000, 0.0000,  
0.0000

42.0038, 0.2177,  
0.2304

42.0038, 0.2177,  
0.2304

35.7653, 0.2039,  
0.2102

49.1980, 0.2330,  
0.2501

30.4215, 0.1921,  
0.1901

57.3944, 0.2492,  
0.2689

25.9086, 0.1828,  
0.1707

66.6406, 0.2658,  
0.2864

22.1352, 0.1758,  
0.1525

76.9797, 0.2823,  
0.3025

21.8450, 0.1753,  
0.1510

88.4520, 0.2985,  
0.3170

99.9995, 0.3127,  
0.3290

# Harmonies

## Analogous

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



42.0038, 0.1986, 0.2530



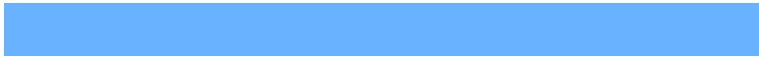
42.0038, 0.2177, 0.2304



42.0038, 0.2609, 0.2315

# Triad

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



42.0038, 0.2177, 0.2304



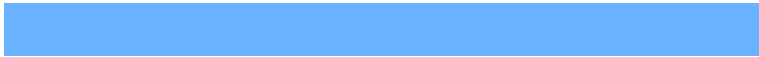
42.0038, 0.4332, 0.3377



42.0038, 0.2926, 0.4267

# Complementary

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



42.0038, 0.2177, 0.2304



55.3629, 0.4424, 0.4062

# 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.



42.0038, 0.3558, 0.4485



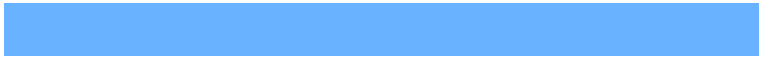
42.0038, 0.2177, 0.2304



42.0038, 0.4405, 0.3872

# Square

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



42.0038, 0.2177, 0.2304



42.0038, 0.3883, 0.2906



42.0038, 0.4106, 0.4294

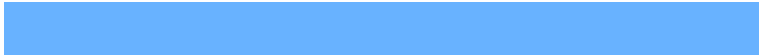


42.0038, 0.2379, 0.3676



# Rectangle

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



42.0038, 0.2177, 0.2304



42.0038, 0.3008, 0.2438



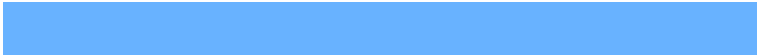
42.0038, 0.4106, 0.4294



42.0038, 0.3135, 0.4390

# Sweetspot

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



42.0053, 0.2177, 0.2304



78.2619, 0.2842, 0.3042



77.7430, 0.2718, 0.4254



16.0744, 0.2794, 0.2998



0.0000, 0.0000, 0.0000

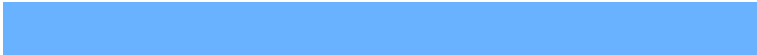


21.4041, 0.3127, 0.3290



# Same Dimension

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



42.0053, 0.2177, 0.2304



34.7213, 0.2016, 0.2065



20.0966, 0.1971, 0.1378



18.8461, 0.2979, 0.3165



11.7122, 0.1761, 0.1539



1.3583, 0.1819, 0.1747



# Inverse Universe

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



34.3987, 0.4032, 0.2557



28.7804, 0.4318, 0.2473



93.7754, 0.3969, 0.4681



18.1353, 0.3217, 0.3174



11.9103, 0.5009, 0.2533



1.1817, 0.4749, 0.2390



# Previews

## White Background



This preview shows how the Yxy color 42.0038, 0.2177, 0.2304 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

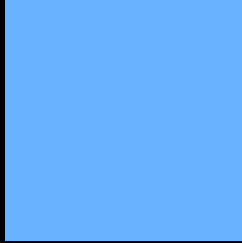
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.0038, 0.2177, 0.2304 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

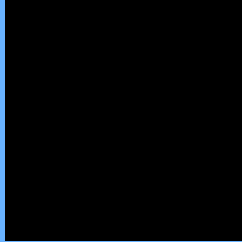
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

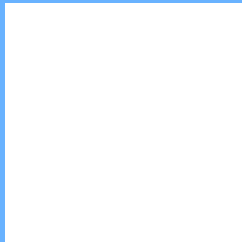
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.0038, 0.2177, 0.2304**

## Background



This preview shows how black text looks on a background with the Yxy color 42.0038, 0.2177, 0.2304.



This preview shows how white text looks on a background with the Yxy color 42.0038, 0.2177, 0.2304.

# 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

42.0038, 0.2177, 0.2304

### Protanopia

41.7298, 0.2413, 0.2323

### Deuteranopia

41.9593, 0.2317, 0.2264



## Tritanopia

42.0721, 0.2349, 0.3066

# Trichromacy



**Original Color**

42.0038, 0.2177, 0.2304

**Protanomaly**

41.6775, 0.2311, 0.2309

**Deuteranomaly**

41.7772, 0.2258, 0.2273

**Tritanomaly**

41.7286, 0.2278, 0.2752

# Monochromacy



**Original Color**

42.0038, 0.2177, 0.2304

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

38.6663, 0.2688, 0.2895

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0038, 0.2177, 0.2304 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(104, 178, 255)` looks like.

```
.text, #text, p{  
    color:rgb(104, 178, 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(104, 178, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 178, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0038, 0.2177, 0.2304 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(104, 178, 255) }
```

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

```
.border{ border-color:rgb(104, 178, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 178, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(104, 178, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(104, 178, 255); box-shadow:4px 4px 4px 4px rgb(104, 178, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0038, 0.2177, 0.2304 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 178, 255) }
```

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

```
.background{ background-color: rgb(104,  
178, 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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