

# Converting Colors

$Y_{xy}(42.2667, 0.2244, 0.2296)$

Have a look what the booklet for  
Yxy(42.2667, 0.2244, 0.2296)  
contains.

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# Color

**Yxy(42.2637, 0.2244, 0.2295)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78B0FF
RGB	120, 176, 255
RGB Percent	47%, 69%, 100%
CMY	0.5291, 0.3098, 0.0001
CMYK	0.53, 0.31, 0.00, 0.00
HSL	215°, 100%, 74%
HSV	215°, 53%, 100%
XYZ	41.3245, 42.2637, 100.5673
YIQ	168.2620, -58.7350, 12.6970

# Conversions

## Conversions Part 2

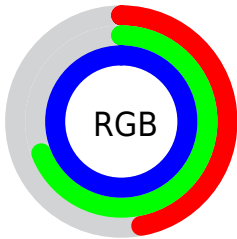
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">120, 160, 255</a>
Decimal	<a href="#">7909631</a>
CIELab	<a href="#">71.05, 3.56, -44.68</a>
CIELCh	<a href="#">71, 44.824, 274.555</a>
Yxy	<a href="#">42.2637, 0.2244, 0.2295</a>
Android (android.graphics.Color)	<a href="#">4286099711 (0xFF78B0FF)</a>
YUV	<a href="#">168.2620, 42.7618, -42.3258</a>
Hunter-Lab	<a href="#">65.0105, -0.3034, -46.2106</a>

# Details

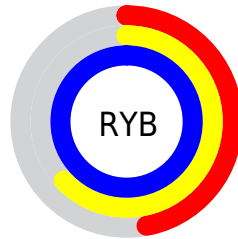
The Yxy color **42.2637, 0.2244, 0.2295** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **63.4843, 0.4193, 0.4091**, and the grayscale version is **39.1084, 0.3127, 0.3290**.

A 20% lighter version of the original color is **73.9555, 0.2666, 0.3023**, and **19.3624, 0.2018, 0.2047** is the 20% darker color. If you saturate the color by 10%, you get **35.1417, 0.2085, 0.2066**, and if you desaturate by 10%, it is **50.5178, 0.2413, 0.2517**.

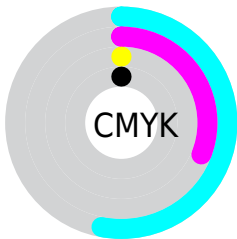
# Distribution



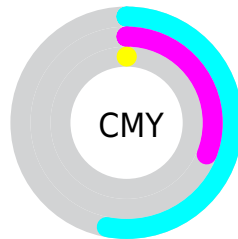
- Red (47%)
- Green (69%)
- Blue (100%)



- Red (47%)
- Yellow (63%)
- Blue (100%)



- Cyan (53%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (53%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2637, 0.2244, 0.2295 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 42.2637, 0.2244, 0.2295 by changing the saturation by 10% instead.





 42.2637, 0.2244,  
0.2295

 42.2637, 0.2244,  
0.2295

355.5749, 0.2674,  
0.2775

 29.3078, 0.2143,  
0.2183


 78.5986, 0.2396,  
0.2464

 19.3138, 0.2017,  
0.2046


 102.7464, 0.2455,  
0.2529

 11.8973, 0.1858,  
0.1872


 131.3936, 0.2505,  
0.2584

 6.6738, 0.1652,  
0.1650

164.9246, 0.2548,  
0.2633

 3.2589, 0.1380,  
0.1359

203.7239, 0.2585,  
0.2675

 1.2684, 0.1018,  
0.0979

248.1757, 0.2619,

 0.1165, 0.0338,

0.2712

0.0199

298.6646, 0.2648,  
0.2745

■ 0.0000, 0.0000,  
0.0000

■ 42.2637, 0.2244,  
0.2295

■ 42.2637, 0.2244,  
0.2295

■ 35.1417, 0.2085,  
0.2066

■ 50.5178, 0.2413,  
0.2517

■ 29.0871, 0.1944,  
0.1835

■ 59.9544, 0.2586,  
0.2725

■ 24.0341, 0.1826,  
0.1613

■ 70.6258, 0.2758,  
0.2917

■ 19.9041, 0.1735,  
0.1406

■ 82.5794, 0.2924,  
0.3092

■ 17.4647, 0.1687,  
0.1271

■ 95.8602, 0.3083,  
0.3248

99.9985, 0.3127,  
0.3290

# Harmonies

## Analogous

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



42.2637, 0.2009, 0.2475



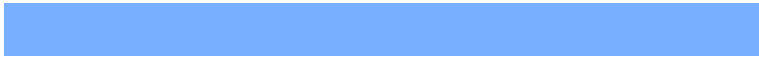
42.2637, 0.2244, 0.2295



42.2637, 0.2714, 0.2346

# Triad

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



42.2637, 0.2244, 0.2295



42.2637, 0.4368, 0.3468



42.2637, 0.2817, 0.4174

# Complementary

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



42.2637, 0.2244, 0.2295



63.4843, 0.4193, 0.4091

# 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.



42.2637, 0.3443, 0.4471



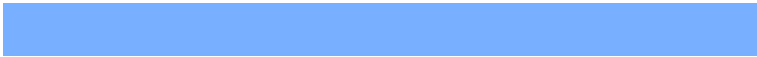
42.2637, 0.2244, 0.2295



42.2637, 0.4368, 0.3955

# Square

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



42.2637, 0.2244, 0.2295



42.2637, 0.3982, 0.2989



42.2637, 0.4015, 0.4346

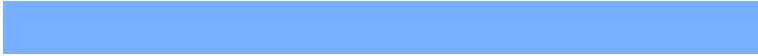


42.2637, 0.2306, 0.3549



# Rectangle

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



42.2637, 0.2244, 0.2295



42.2637, 0.3129, 0.2491



42.2637, 0.4015, 0.4346



42.2637, 0.3020, 0.4321

# Sweetspot

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



42.2652, 0.2244, 0.2295



78.7616, 0.2873, 0.3040



79.6162, 0.2692, 0.3984



16.3264, 0.2839, 0.3004



0.0000, 0.0000, 0.0000

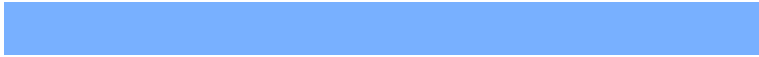


21.4041, 0.3127, 0.3290



# Same Dimension

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



42.2652, 0.2244, 0.2295



35.0892, 0.2084, 0.2064



25.5185, 0.2171, 0.1621



18.6148, 0.2979, 0.3147



9.4053, 0.1695, 0.1302



1.1252, 0.1757, 0.1524



# Inverse Universe

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



37.8398, 0.4012, 0.2721



31.8991, 0.4283, 0.2642



92.0489, 0.3819, 0.4604



18.1120, 0.3229, 0.3192



11.6774, 0.5324, 0.2707

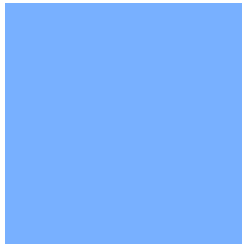


1.1581, 0.5028, 0.2544



# Previews

## White Background



This preview shows how the Yxy color 42.2637, 0.2244, 0.2295 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

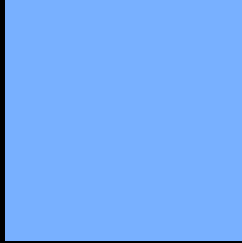
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.2637, 0.2244, 0.2295 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

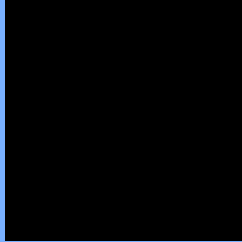
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

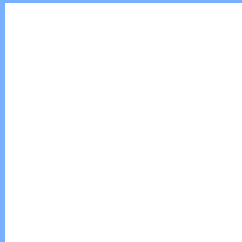
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.2637, 0.2244, 0.2295**

## Background



This preview shows how black text looks on a background with the Yxy color 42.2637, 0.2244, 0.2295.



This preview shows how white text looks on a background with the Yxy color 42.2637, 0.2244, 0.2295.

# 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

42.2637, 0.2244, 0.2295

### Protanopia

41.8546, 0.2403, 0.2303

### Deuteranopia

42.1283, 0.2329, 0.2267



## Tritanopia

42.1016, 0.2440, 0.3069

# Trichromacy



**Original Color**

42.2637, 0.2244, 0.2295

**Protanomaly**

41.8517, 0.2337, 0.2294

**Deuteranomaly**

41.9324, 0.2292, 0.2270

**Tritanomaly**

41.8645, 0.2359, 0.2747

# Monochromacy



**Original Color**

42.2637, 0.2244, 0.2295

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

39.8753, 0.2736, 0.2890

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2637, 0.2244, 0.2295 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(120, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(120, 176, 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(120, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 176, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2637, 0.2244, 0.2295 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(120, 176, 255) }
```

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

```
.border{ border-color:rgb(120, 176, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 176, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(120, 176,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2637, 0.2244, 0.2295 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 176, 255) }
```

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

```
.background{ background-color: rgb(120,  
176, 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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