

# Converting Colors

$Y_{xy}(47.7463, 0.2210, 0.2488)$

Have a look what the booklet for  
Yxy(47.7463, 0.2210, 0.2488)  
contains.

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# Color

**Yxy(47.7441, 0.2211, 0.2490)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66C0FF
RGB	102, 192, 255
RGB Percent	40%, 75%, 100%
CMY	0.5994, 0.2471, 0.0000
CMYK	0.60, 0.25, 0.00, 0.00
HSL	205°, 100%, 70%
HSV	205°, 60%, 100%
XYZ	42.3945, 47.7441, 101.6048
YIQ	172.2720, -73.8630, 0.5130

# Conversions

## Conversions Part 2

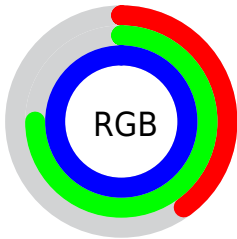
Format	Color
R <sub>YB</sub>	102, 159, 255
Decimal	6734079
CIE Lab	74.66, -8.76, -39.12
CIE LCh	75, 40.094, 257.375
Yxy	47.7441, 0.2211, 0.2490
Android (android.graphics.Color)	4284924159 (0xFF66C0FF)
YUV	172.2720, 40.7849, -61.6285
Hunter-Lab	69.0971, -11.4014, -38.8158

# Details

The Yxy color **47.7441, 0.2211, 0.2490** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **49.1982, 0.4555, 0.3922**, and the grayscale version is **41.2363, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2473, 0.2613, 0.3211**, and **22.6912, 0.1988, 0.2288** is the 20% darker color. If you saturate the color by 10%, you get **42.0209, 0.2089, 0.2329**, and if you desaturate by 10%, it is **54.2562, 0.2349, 0.2647**.

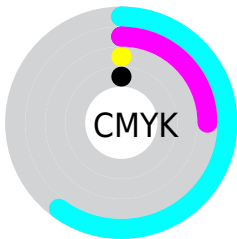
# Distribution



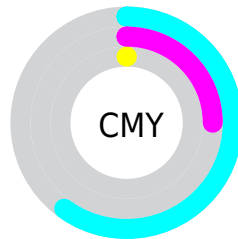
- Red (40%)
- Green (75%)
- Blue (100%)



- Red (40%)
- Yellow (62%)
- Blue (100%)



- Cyan (60%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (25%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.7441, 0.2211, 0.2490 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 47.7441, 0.2211, 0.2490 by changing the saturation by 10% instead.





 47.7441, 0.2211,  
0.2490


 47.7441, 0.2211,  
0.2490


377.7769, 0.2646,  
0.2881


 33.6243, 0.2111,  
0.2398


 86.8233, 0.2363,  
0.2629

 22.6051, 0.1987,  
0.2282


 112.5514, 0.2422,  
0.2682

 14.3022, 0.1832,  
0.2135


 142.9178, 0.2473,  
0.2727

 8.3311, 0.1634,  
0.1943

178.3068, 0.2517,  
0.2766

 4.3076, 0.1374,  
0.1685

219.1028, 0.2555,  
0.2800

 1.8471, 0.1030,  
0.1332

265.6902, 0.2589,

 0.5162, 0.0427,

0.2830

0.0797

318.4535, 0.2619,  
0.2857

0.0000, 0.0000,  
0.0000

47.7441, 0.2211,  
0.2490

47.7441, 0.2211,  
0.2490

42.0209, 0.2089,  
0.2329

54.2562, 0.2349,  
0.2647

37.0352, 0.1987,  
0.2166

61.6008, 0.2498,  
0.2797

32.7283, 0.1907,  
0.2006

69.8186, 0.2655,  
0.2938

29.0088, 0.1848,  
0.1852

78.9471, 0.2814,  
0.3067

28.9866, 0.1848,  
0.1851

89.0209, 0.2973,  
0.3185

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



47.7441, 0.2130, 0.2782



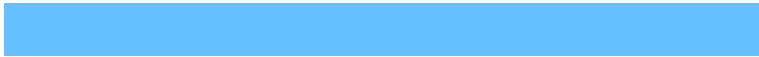
47.7441, 0.2211, 0.2490



47.7441, 0.2513, 0.2415

# Triad

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



47.7441, 0.2211, 0.2490



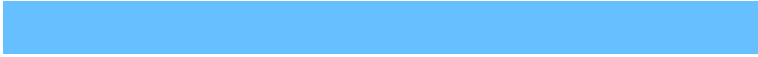
47.7441, 0.4038, 0.3210



47.7441, 0.3175, 0.4228

# Complementary

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



47.7441, 0.2211, 0.2490



49.1982, 0.4555, 0.3922

# 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.



47.7441, 0.3708, 0.4283



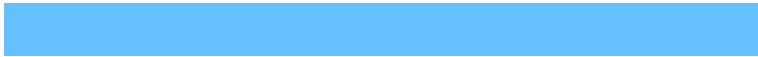
47.7441, 0.2211, 0.2490



47.7441, 0.4237, 0.3644

# Square

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



47.7441, 0.2211, 0.2490



47.7441, 0.3567, 0.2819



47.7441, 0.4105, 0.4041



47.7441, 0.2655, 0.3834



# Rectangle

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



47.7441, 0.2211, 0.2490



47.7441, 0.2821, 0.2476



47.7441, 0.4105, 0.4041



47.7441, 0.3359, 0.4286

# Sweetspot

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



47.7445, 0.2211, 0.2490



80.8234, 0.2845, 0.3091



77.0092, 0.2784, 0.4476



16.6990, 0.2798, 0.3055



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.



47.7445, 0.2211, 0.2490



40.9337, 0.2066, 0.2295



22.8807, 0.1994, 0.1522



19.1521, 0.2979, 0.3190



15.4476, 0.1855, 0.1876



1.7195, 0.1904, 0.2053



# Inverse Universe

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



34.5993, 0.3863, 0.2407



29.0842, 0.4087, 0.2300



84.3756, 0.4060, 0.4584



18.1662, 0.3202, 0.3151



12.2874, 0.4595, 0.2305

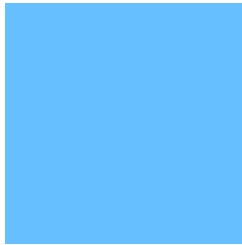


1.2181, 0.4393, 0.2194



# Previews

## White Background



This preview shows how the Yxy color 47.7441, 0.2211, 0.2490 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

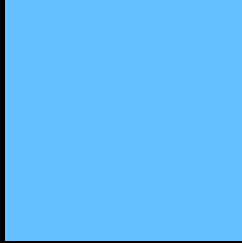
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.7441, 0.2211, 0.2490 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

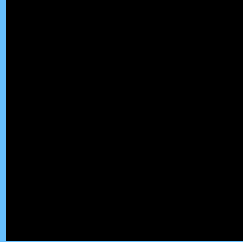
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

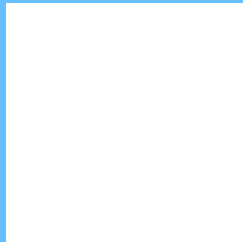
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.7441, 0.2211, 0.2490**

## Background



This preview shows how black text looks on a background with the Yxy color 47.7441, 0.2211, 0.2490.



This preview shows how white text looks on a background with the Yxy color 47.7441, 0.2211, 0.2490.

# 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

47.7441, 0.2211, 0.2490

### Protanopia

47.1889, 0.2551, 0.2494

### Deuteranopia

47.4358, 0.2459, 0.2406



## Tritanopia

47.6844, 0.2340, 0.3063

# Trichromacy



**Original Color**

47.7441, 0.2211, 0.2490

**Protanomaly**

46.8713, 0.2408, 0.2486

**Deuteranomaly**

47.2363, 0.2353, 0.2432

**Tritanomaly**

47.4172, 0.2285, 0.2827

# Monochromacy



**Original Color**

47.7441, 0.2211, 0.2490

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

42.7075, 0.2703, 0.2974

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.7441, 0.2211, 0.2490 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(102, 192, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 192, 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(102, 192, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 192, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.7441, 0.2211, 0.2490 is called "border". The border property can be set on classes, ids or directly on the HTML element.

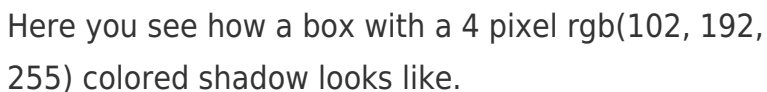
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(102, 192, 255) }
```

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

```
.border{ border-color:rgb(102, 192, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(102, 192, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 192, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 192, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 192,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.7441, 0.2211, 0.2490 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 192, 255) }
```

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

```
.background{ background-color: rgb(102,  
192, 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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