

# Converting Colors

$Y_{xy}(46.0900, 0.2332, 0.2769)$

Have a look what the booklet for  
Yxy(46.0900, 0.2332, 0.2769)  
contains.

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# Color

**Yxy(46.0389, 0.2332, 0.2763)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6ABFE6
RGB	106, 191, 230
RGB Percent	42%, 75%, 90%
CMY	0.5845, 0.2510, 0.0979
CMYK	0.54, 0.17, 0.00, 0.10
HSL	199°, 71%, 66%
HSV	199°, 54%, 90%
XYZ	38.8573, 46.0389, 81.7303
YIQ	170.0310, -63.1790, -5.8910

# Conversions

## Conversions Part 2

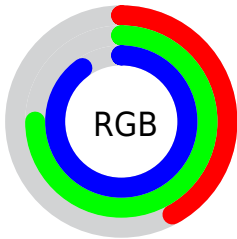
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	106, 156, 230
Decimal	6995942
CIELab	73.57, -14.99, -27.33
CIElCh	74, 31.171, 241.258
Yxy	46.0389, 0.2332, 0.2763
Android (android.graphics.Color)	4285186022 (0xFF6ABFE6)
YUV	170.0310, 29.5647, -56.1552
Hunter-Lab	67.8520, -16.5180, -23.9207

# Details

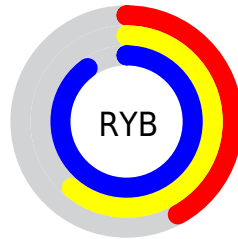
The Yxy color **46.0389, 0.2332, 0.2763** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **38.1165, 0.4445, 0.3734**, and the grayscale version is **40.0843, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.7409, 0.2616, 0.3200**, and **21.6841, 0.2131, 0.2626** is the 20% darker color. If you saturate the color by 10%, you get **41.7371, 0.2215, 0.2645**, and if you desaturate by 10%, it is **50.8780, 0.2464, 0.2876**.

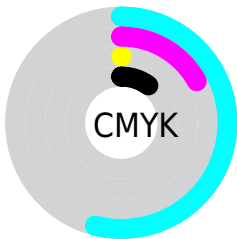
# Distribution



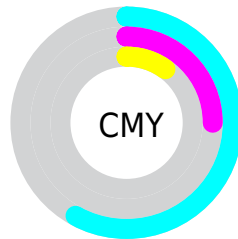
- Red (42%)
- Green (75%)
- Blue (90%)



- Red (42%)
- Yellow (61%)
- Blue (90%)



- Cyan (54%)
- Magenta (17%)
- Yellow (0%)
- Black (10%)




- Cyan (58%)
- Magenta (25%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.0389, 0.2332, 0.2763 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 46.0389, 0.2332, 0.2763 by changing the saturation by 10% instead.





 46.0389, 0.2332,  
0.2763


 46.0389, 0.2332,  
0.2763


370.9650, 0.2716,  
0.3031

 32.2765, 0.2241,  
0.2696


 84.2772, 0.2468,  
0.2861

 21.5728, 0.2128,  
0.2611


 109.5219, 0.2520,  
0.2897

 13.5433, 0.1982,  
0.2498


 139.3629, 0.2565,  
0.2928

 7.8037, 0.1791,  
0.2343

174.1845, 0.2603,  
0.2954

 3.9696, 0.1530,  
0.2122

214.3711, 0.2637,  
0.2977

 1.6566, 0.1166,  
0.1786

260.3071, 0.2667,

 0.3953, 0.0028,

0.2997

0.1128

312.3770, 0.2693,  
0.3015

0.0000, 0.0000,  
0.0000

46.0389, 0.2332,  
0.2763

46.0389, 0.2332,  
0.2763

41.7371, 0.2215,  
0.2645

50.8780, 0.2464,  
0.2876

37.9341, 0.2115,  
0.2525

56.2789, 0.2607,  
0.2984

34.5937, 0.2035,  
0.2404

62.2706, 0.2758,  
0.3084

31.6697, 0.1976,  
0.2284

68.8780, 0.2912,  
0.3176

30.0584, 0.1948,  
0.2213

76.1245, 0.3066,  
0.3259

 84.0322, 0.3220,  
0.3335

 90.2782, 0.3288,  
0.3404

 94.6637, 0.3280,  
0.3474

 98.4954, 0.3273,  
0.3532

# Harmonies

## Analogous

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



46.0389, 0.2371, 0.3091



46.0389, 0.2332, 0.2763



46.0389, 0.2485, 0.2600

# Triad

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



46.0389, 0.2332, 0.2763



46.0389, 0.3664, 0.3054



46.0389, 0.3408, 0.4077

# Complementary

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



46.0389, 0.2332, 0.2763



38.1165, 0.4445, 0.3734

# 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.



46.0389, 0.3783, 0.4001



46.0389, 0.2332, 0.2763



46.0389, 0.3946, 0.3399

# Square

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



46.0389, 0.2332, 0.2763



46.0389, 0.3237, 0.2774



46.0389, 0.3987, 0.3742



46.0389, 0.2974, 0.3900



# Rectangle

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



46.0389, 0.2332, 0.2763



46.0389, 0.2683, 0.2589



46.0389, 0.3987, 0.3742



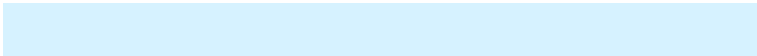
46.0389, 0.3546, 0.4078

# Sweetspot

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



46.0406, 0.2332, 0.2763



85.1489, 0.2878, 0.3157



61.6661, 0.2867, 0.4508



17.8492, 0.2846, 0.3138



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.



46.0406, 0.2332, 0.2763



52.0014, 0.2199, 0.2628



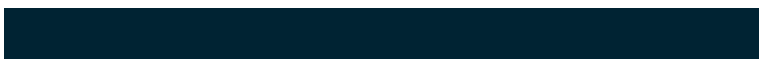
24.9477, 0.2153, 0.1898



15.5314, 0.2981, 0.3214



17.2391, 0.1953, 0.2232



1.4385, 0.2001, 0.2405



# Inverse Universe

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



30.8899, 0.3607, 0.2361



32.7515, 0.3753, 0.2211



61.6387, 0.4044, 0.4363



14.5340, 0.3186, 0.3130



10.9380, 0.4198, 0.2086

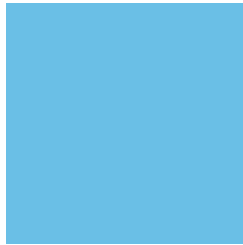


0.8249, 0.4018, 0.1987



# Previews

## White Background



This preview shows how the Yxy color 46.0389, 0.2332, 0.2763 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

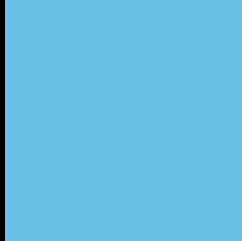
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.0389, 0.2332, 0.2763 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 46.0389, 0.2332, 0.2763**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.0389, 0.2332, 0.2763.



This preview shows how white text looks on a background with the Yxy color 46.0389, 0.2332, 0.2763.

# 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

46.0389, 0.2332, 0.2763

### Protanopia

45.6073, 0.2744, 0.2748

### Deuteranopia

45.7625, 0.2658, 0.2600



## Tritanopia

45.8894, 0.2406, 0.3062

# Trichromacy



## Original Color

46.0389, 0.2332, 0.2763

## Protanomaly

45.4518, 0.2572, 0.2756

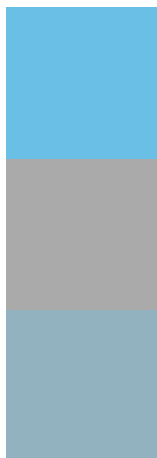
## Deuteranomaly

45.3931, 0.2518, 0.2649

## Tritanomaly

45.9745, 0.2382, 0.2954

# Monochromacy



## Original Color

46.0389, 0.2332, 0.2763

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

41.8496, 0.2769, 0.3093

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.0389, 0.2332, 0.2763 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(106, 191, 230)` looks like.

```
.text, #text, p{  
    color:rgb(106, 191, 230)  
}
```

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(106, 191, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 191, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 46.0389, 0.2332, 0.2763 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(106, 191, 230) }
```

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

```
.border{ border-color:rgb(106, 191, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(106, 191, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 191, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 191, 230);  
box-shadow:4px 4px 4px 4px rgb(106, 191,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.0389, 0.2332, 0.2763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 191, 230) }
```

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

```
.background{ background-color: rgb(106,  
191, 230) }
```

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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