

# Converting Colors

$Yxy(48.9927, 0.2377, 0.3031)$

Have a look what the booklet for  
Yxy(48.9927, 0.2377, 0.3031)  
contains.

<b>Yxy(49.0197, 0.2376, 0.3027)</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(49.0197, 0.2376, 0.3027)**

# Conversions

## Conversions Part 1

Format	Color
Hex	62C8DB
RGB	98, 200, 219
RGB Percent	38%, 78%, 86%
CMY	0.6156, 0.2157, 0.1412
CMYK	0.55, 0.09, 0.00, 0.14
HSL	189°, 63%, 62%
HSV	189°, 55%, 86%
XYZ	38.4773, 49.0197, 74.4445
YIQ	171.6680, -66.8910, -15.7150

# Conversions

## Conversions Part 2

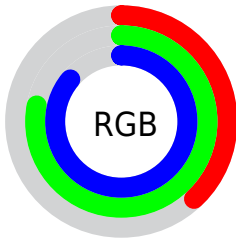
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	98, 153, 219
Decimal	6473947
CIE Lab	75.46, -24.36, -18.50
CIE LCh	75, 30.588, 217.208
Yxy	49.0197, 0.2376, 0.3027
Android (android.graphics.Color)	4284664027 (0xFF62C8DB)
YUV	171.6680, 23.3347, -64.6068
Hunter-Lab	70.0141, -24.4272, -14.0320

# Details

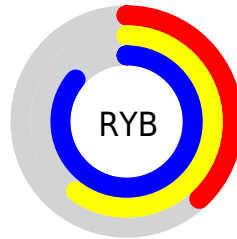
The Yxy color **49.0197, 0.2376, 0.3027** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **28.6647, 0.4633, 0.3515**, and the grayscale version is **40.9865, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.9081, 0.2592, 0.3288**, and **23.4448, 0.2185, 0.2947** is the 20% darker color. If you saturate the color by 10%, you get **46.3909, 0.2283, 0.2971**, and if you desaturate by 10%, it is **52.0212, 0.2486, 0.3081**.

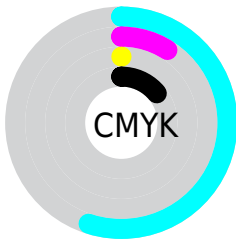
# Distribution



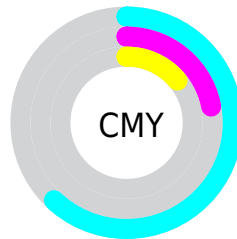
- Red (38%)
- Green (78%)
- Blue (86%)



- Red (38%)
- Yellow (60%)
- Blue (86%)



- Cyan (55%)
- Magenta (9%)
- Yellow (0%)
- Black (14%)




- Cyan (62%)
- Magenta (22%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0197, 0.2376, 0.3027 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 49.0197, 0.2376, 0.3027 by changing the saturation by 10% instead.





 49.0197, 0.2376,  
0.3027


 49.0197, 0.2376,  
0.3027

382.8199, 0.2737,  
0.3167

 34.6351, 0.2291,  
0.2990


 88.7207, 0.2504,  
0.3079

 23.3819, 0.2184,  
0.2942


 114.8059, 0.2553,  
0.3098

 14.8758, 0.2047,  
0.2877


 145.5601, 0.2595,  
0.3114

 8.7322, 0.1867,  
0.2784

 181.3677, 0.2631,  
0.3128

 4.5670, 0.1618,  
0.2643

222.6131, 0.2662,  
0.3140

 1.9955, 0.1264,  
0.2409

269.6806, 0.2690,

 0.6049, 0.0000,

0.3150

0.2063

322.9548, 0.2715,  
0.3159

■ 0.0000, 0.0000,  
0.0000

■ 49.0197, 0.2376,  
0.3027

■ 49.0197, 0.2376,  
0.3027

■ 46.3909, 0.2283,  
0.2971

■ 52.0212, 0.2486,  
0.3081

■ 44.1010, 0.2209,  
0.2915

■ 55.4148, 0.2611,  
0.3133

■ 42.1194, 0.2154,  
0.2859

■ 59.2250, 0.2749,  
0.3182

■ 40.4061, 0.2118,  
0.2803

■ 63.4726, 0.2895,  
0.3228

■ 39.6523, 0.2105,  
0.2777

■ 68.1768, 0.3046,  
0.3270

73.3559, 0.3201,  
0.3308

79.0268, 0.3356,  
0.3342

81.5868, 0.3378,  
0.3376

83.4915, 0.3373,  
0.3410

# Harmonies

## Analogous

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



49.0197, 0.2562, 0.3427



49.0197, 0.2376, 0.3027



49.0197, 0.2376, 0.2739

# Triad

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



49.0197, 0.2376, 0.3027



49.0197, 0.3320, 0.2839



49.0197, 0.3697, 0.4006

# Complementary

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



49.0197, 0.2376, 0.3027



28.6647, 0.4633, 0.3515

# 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.



49.0197, 0.3932, 0.3785



49.0197, 0.2376, 0.3027



49.0197, 0.3712, 0.3126

# Square

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



49.0197, 0.2376, 0.3027



49.0197, 0.2896, 0.2655



49.0197, 0.3942, 0.3464



49.0197, 0.3317, 0.4031



# Rectangle

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



49.0197, 0.2376, 0.3027



49.0197, 0.2478, 0.2637



49.0197, 0.3942, 0.3464



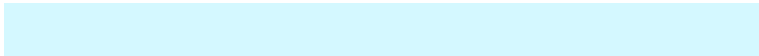
49.0197, 0.3797, 0.3950

# Sweetspot

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



49.0215, 0.2376, 0.3027



88.4203, 0.2866, 0.3219



54.5208, 0.2957, 0.4809



18.6598, 0.2836, 0.3210



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

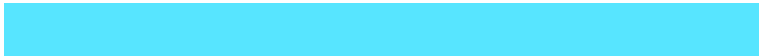


# Same Dimension

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



49.0215, 0.2376, 0.3027



65.0402, 0.2272, 0.2964



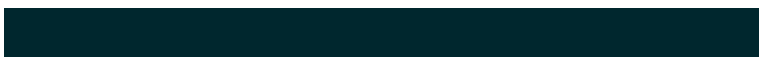
26.5727, 0.2189, 0.2134



14.4633, 0.2982, 0.3252



23.6469, 0.2107, 0.2785



1.6276, 0.2132, 0.2876



# Inverse Universe

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



27.9676, 0.3393, 0.2156



33.6618, 0.3462, 0.1985



47.2471, 0.4183, 0.4199



13.2379, 0.3162, 0.3095



11.0109, 0.3648, 0.1783

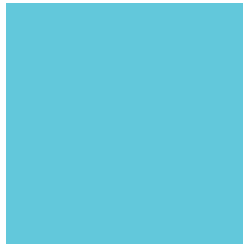


0.7230, 0.3565, 0.1738



# Previews

## White Background



This preview shows how the Yxy color 49.0197, 0.2376, 0.3027 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

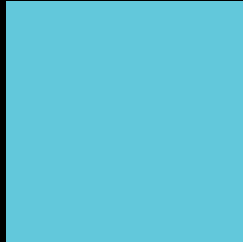
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.0197, 0.2376, 0.3027 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 49.0197, 0.2376, 0.3027**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.0197, 0.2376, 0.3027.



This preview shows how white text looks on a background with the Yxy color 49.0197, 0.2376, 0.3027.

# 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

49.0197, 0.2376, 0.3027

### Protanopia

48.2448, 0.2922, 0.2976

### Deuteranopia

48.5658, 0.2839, 0.2779



## Tritanopia

48.8597, 0.2381, 0.3053

# Trichromacy



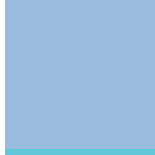
## Original Color

49.0197, 0.2376, 0.3027



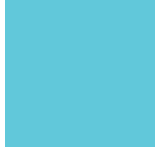
## Protanomaly

47.7280, 0.2681, 0.2986



## Deuteranomaly

48.0127, 0.2632, 0.2852



## Tritanomaly

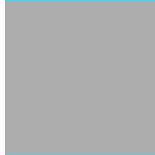
48.9119, 0.2376, 0.3040

# Monochromacy



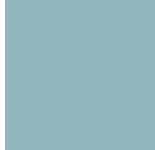
## Original Color

49.0197, 0.2376, 0.3027



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

43.1498, 0.2780, 0.3191

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0197, 0.2376, 0.3027 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(98, 200, 219)` looks like.

```
.text, #text, p{  
    color:rgb(98, 200, 219)  
}
```

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(98, 200, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 200, 219) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0197, 0.2376, 0.3027 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(98, 200, 219) }
```

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

```
.border{ border-color:rgb(98, 200, 219) }
```

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

Here you see how a box with a 4 pixel rgb(98, 200, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 200, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 200, 219);  
box-shadow:4px 4px 4px 4px rgb(98, 200,  
219) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0197, 0.2376, 0.3027 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 200, 219) }
```

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

```
.background{ background-color: rgb(98, 200,  
219) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor