

# Converting Colors

$Y_{xy}(49.1380, 0.2679, 0.3769)$

Have a look what the booklet for  
Yxy(49.1380, 0.2679, 0.3769)  
contains.

<b>Yxy(49.2518, 0.2684, 0.3776)</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(49.2518, 0.2684, 0.3776)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BCCAB
RGB	107, 204, 171
RGB Percent	42%, 80%, 67%
CMY	0.5802, 0.2000, 0.3295
CMYK	0.48, 0.00, 0.16, 0.20
HSL	160°, 49%, 61%
HSV	160°, 48%, 80%
XYZ	35.0084, 49.2518, 46.1736
YIQ	171.2350, -47.2190, -30.8270

# Conversions

## Conversions Part 2

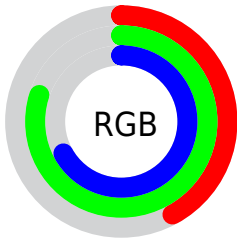
<b>Format</b>	<b>Color</b>
<b>RYB</b>	107, 165, 204
Decimal	7064747
CIELab	75.61, -36.45, 7.69
CIELCh	76, 37.251, 168.094
Yxy	49.2518, 0.2684, 0.3776
Android (android.graphics.Color)	4285254827 (0xFF6BCCAB)
YUV	171.2350, -0.1159, -56.3341
Hunter-Lab	70.1796, -33.7713, 10.1168

# Details

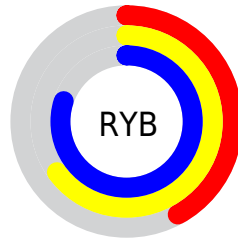
The Yxy color **49.2518, 0.2684, 0.3776** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **25.2583, 0.3965, 0.2869**, and the grayscale version is **40.8726, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7975, 0.2757, 0.3619**, and **23.4552, 0.2553, 0.3914** is the 20% darker color. If you saturate the color by 10%, you get **47.8763, 0.2623, 0.3900**, and if you desaturate by 10%, it is **50.9435, 0.2760, 0.3658**.

# Distribution



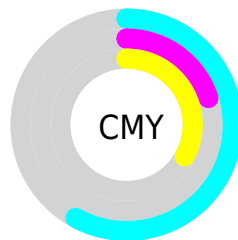
- Red (42%)
- Green (80%)
- Blue (67%)



- Red (42%)
- Yellow (65%)
- Blue (80%)



- Cyan (48%)
- Magenta (0%)
- Yellow (16%)
- Black (20%)




- Cyan (58%)
- Magenta (20%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.2518, 0.2684, 0.3776 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 49.2518, 0.2684, 0.3776 by changing the saturation by 10% instead.





 49.2518, 0.2684,  
0.3776


 49.2518, 0.2684,  
0.3776


383.7328, 0.2906,  
0.3528

 34.8193, 0.2628,  
0.3839


 89.0653, 0.2765,  
0.3685

 23.5237, 0.2557,  
0.3922


 115.2151, 0.2795,  
0.3651

 14.9807, 0.2462,  
0.4033


 146.0394, 0.2821,  
0.3622

 8.8058, 0.2329,  
0.4191

 181.9226, 0.2843,  
0.3598

 4.6147, 0.2131,  
0.4433

223.2492, 0.2862,  
0.3577

 2.0230, 0.1804,  
0.4850

270.4035, 0.2879,

 0.6208, 0.0000,

0.3559

0.8174

323.7699, 0.2893,  
0.3542

0.0000, 0.0000,  
0.0000

49.2518, 0.2684,  
0.3776

49.2518, 0.2684,  
0.3776

47.8763, 0.2623,  
0.3900

50.9435, 0.2760,  
0.3658

46.7895, 0.2579,  
0.4029

52.9649, 0.2848,  
0.3548

45.9691, 0.2555,  
0.4161


55.3357, 0.2945,  
0.3446


45.3867, 0.2551,  
0.4292


58.0725, 0.3048,  
0.3354

45.0024, 0.2565,  
0.4421


61.1907, 0.3154,  
0.3270

 44.9212, 0.2570,  
0.4452

 64.7049, 0.3261,  
0.3196

 68.6289, 0.3367,  
0.3130

 69.9683, 0.3355,  
0.3063

 70.3589, 0.3304,  
0.2995

# Harmonies

## Analogous

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



49.2518, 0.3163, 0.4141



49.2518, 0.2684, 0.3776



49.2518, 0.2341, 0.3265

# Triad

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



49.2518, 0.2684, 0.3776



49.2518, 0.2569, 0.2479



49.2518, 0.4149, 0.3634

# Complementary

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



49.2518, 0.2684, 0.3776



25.2583, 0.3965, 0.2869

# 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.



49.2518, 0.3972, 0.3230



49.2518, 0.2684, 0.3776



49.2518, 0.3023, 0.2595

# Square

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



49.2518, 0.2684, 0.3776



49.2518, 0.2282, 0.2547



49.2518, 0.3545, 0.2862



49.2518, 0.4024, 0.3996



# Rectangle

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



49.2518, 0.2684, 0.3776



49.2518, 0.2224, 0.2949



49.2518, 0.3545, 0.2862



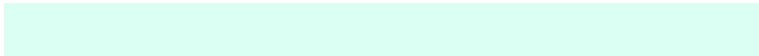
49.2518, 0.4123, 0.3499

# Sweetspot

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



49.2538, 0.2684, 0.3776



93.0879, 0.2979, 0.3414



49.9095, 0.3298, 0.4671



19.7206, 0.2957, 0.3435



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.



49.2538, 0.2684, 0.3776



79.2437, 0.2622, 0.3903



44.0806, 0.2464, 0.3080



12.6596, 0.3028, 0.3370



28.2918, 0.2565, 0.4434



1.4734, 0.2495, 0.4183



# Inverse Universe

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



25.2583, 0.3965, 0.2869



34.8455, 0.4254, 0.2794



27.7185, 0.4328, 0.3480



11.2757, 0.3237, 0.3211



8.3701, 0.5593, 0.2855

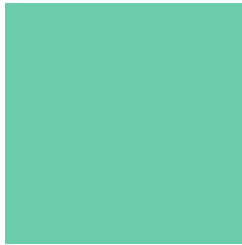


0.4460, 0.5040, 0.2550



# Previews

## White Background



This preview shows how the Yxy color 49.2518, 0.2684, 0.3776 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 49.2518, 0.2684, 0.3776 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

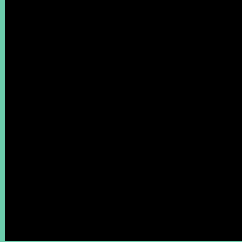
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.2518, 0.2684, 0.3776**

## Background



This preview shows how black text looks on a background with the Yxy color 49.2518, 0.2684, 0.3776.

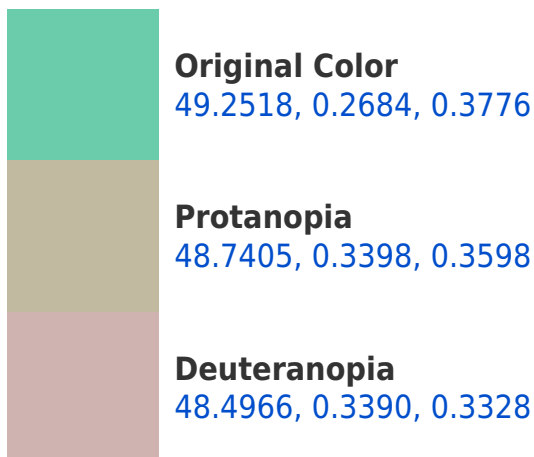


This preview shows how white text looks on a background with the Yxy color 49.2518, 0.2684, 0.3776.

# 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





## Tritanopia

49.1651, 0.2495, 0.3071

# Trichromacy



## Original Color

49.2518, 0.2684, 0.3776



## Protanomaly

48.0973, 0.3086, 0.3661



## Deuteranomaly

47.5685, 0.3086, 0.3478



## Tritanomaly

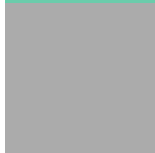
49.0306, 0.2565, 0.3316

# Monochromacy



## Original Color

49.2518, 0.2684, 0.3776



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

43.1031, 0.2931, 0.3461

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.2518, 0.2684, 0.3776 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(107, 204, 171)` looks like.

```
.text, #text, p{  
    color:rgb(107, 204, 171)  
}
```

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(107, 204, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 204, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 49.2518, 0.2684, 0.3776 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(107, 204, 171) }
```

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

```
.border{ border-color:rgb(107, 204, 171) }
```

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

Here you see how a box with a 4 pixel rgb(107, 204, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 204, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 204, 171);  
box-shadow:4px 4px 4px 4px rgb(107, 204,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.2518, 0.2684, 0.3776 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 204, 171) }
```

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

```
.background{ background-color: rgb(107,  
204, 171) }
```

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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