

# Converting Colors

$Yxy(49.7432, 0.2974, 0.4176)$

Have a look what the booklet for  
Yxy(49.7432, 0.2974, 0.4176)  
contains.

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# Color

**Yxy(49.7885, 0.2975, 0.4168)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80CC90
RGB	128, 204, 144
RGB Percent	50%, 80%, 56%
CMY	0.4978, 0.2000, 0.4352
CMYK	0.37, 0.00, 0.29, 0.20
HSL	133°, 43%, 65%
HSV	133°, 37%, 80%
XYZ	35.5376, 49.7885, 34.1281
YIQ	174.4360, -26.0360, -34.7720

# Conversions

## Conversions Part 2

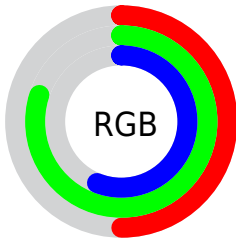
Format	Color
<a href="#">RYB</a>	<a href="#">128, 191, 204</a>
Decimal	<a href="#">8440976</a>
CIELab	<a href="#">75.94, -36.08, 22.66</a>
CIELCh	<a href="#">76, 42.607, 147.871</a>
Yxy	<a href="#">49.7885, 0.2975, 0.4168</a>
Android (android.graphics.Color)	<a href="#">4286631056 (0xFF80CC90)</a>
YUV	<a href="#">174.4360, -15.0049, -40.7244</a>
Hunter-Lab	<a href="#">70.5610, -33.5812, 20.7160</a>

# Details

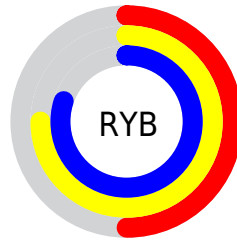
The Yxy color **49.7885, 0.2975, 0.4168** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **31.9260, 0.3331, 0.2550**, and the grayscale version is **42.6615, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.6645, 0.3008, 0.3936**, and **23.7411, 0.2911, 0.4445** is the 20% darker color. If you saturate the color by 10%, you get **47.9053, 0.2942, 0.4456**, and if you desaturate by 10%, it is **52.0643, 0.3013, 0.3898**.

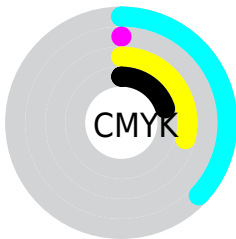
# Distribution



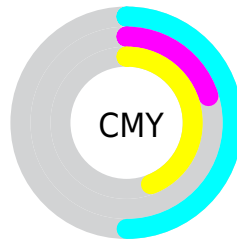
- Red (50%)
- Green (80%)
- Blue (56%)



- Red (50%)
- Yellow (75%)
- Blue (80%)



- Cyan (37%)
- Magenta (0%)
- Yellow (29%)
- Black (20%)




- Cyan (50%)
- Magenta (20%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7885, 0.2975, 0.4168 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 49.7885, 0.2975, 0.4168 by changing the saturation by 10% instead.





 49.7885, 0.2975,  
0.4168


 49.7885, 0.2975,  
0.4168


385.8383, 0.3062,  
0.3711

 35.2454, 0.2949,  
0.4287


 89.8614, 0.3009,  
0.3998

 23.8520, 0.2914,  
0.4444


 116.1600, 0.3022,  
0.3935

 15.2238, 0.2863,  
0.4657


 147.1459, 0.3032,  
0.3883

 8.9766, 0.2784,  
0.4963

183.2034, 0.3040,  
0.3838

 4.7259, 0.2649,  
0.5435

224.7171, 0.3047,  
0.3800

 2.0874, 0.2472,  
0.6481

272.0711, 0.3053,

 0.6575, 0.0000,

0.3766

1.0000

325.6501, 0.3058,  
0.3737

0.0000, 0.0000,  
0.0000

49.7885, 0.2975,  
0.4168

49.7885, 0.2975,  
0.4168

47.9053, 0.2942,  
0.4456

52.0643, 0.3013,  
0.3898

46.3862, 0.2917,  
0.4754

54.7467, 0.3055,  
0.3652

45.2091, 0.2903,  
0.5049


57.8568, 0.3097,  
0.3433


44.3463, 0.2901,  
0.5323


61.4122, 0.3139,  
0.3239

43.7662, 0.2913,  
0.5561

65.4298, 0.3179,  
0.3069

 43.4263, 0.2936,  
0.5748

 69.9253, 0.3217,  
0.2921

 43.3550, 0.2942,  
0.5792

 71.6618, 0.3151,  
0.2791

# Harmonies

## Analogous

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



49.7885, 0.3545, 0.4354



49.7885, 0.2975, 0.4168



49.7885, 0.2473, 0.3660

# Triad

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



49.7885, 0.2975, 0.4168



49.7885, 0.2256, 0.2403



49.7885, 0.4194, 0.3360

# Complementary

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



49.7885, 0.2975, 0.4168



31.9260, 0.3331, 0.2550

# 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.



49.7885, 0.3783, 0.2930



49.7885, 0.2975, 0.4168



49.7885, 0.2644, 0.2401

# Square

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



49.7885, 0.2975, 0.4168



49.7885, 0.2090, 0.2624



49.7885, 0.3198, 0.2591



49.7885, 0.4279, 0.3810

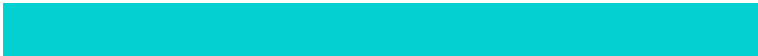


# Rectangle

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



49.7885, 0.2975, 0.4168



49.7885, 0.2241, 0.3259



49.7885, 0.3198, 0.2591



49.7885, 0.4088, 0.3211

# Sweetspot

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



49.7906, 0.2975, 0.4168



93.7169, 0.3080, 0.3516



55.5364, 0.3553, 0.4250



19.9070, 0.3074, 0.3546



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.



49.7906, 0.2975, 0.4168



79.8101, 0.2947, 0.4408



51.1215, 0.2744, 0.3609



12.5749, 0.3088, 0.3478



27.3018, 0.2936, 0.5771



1.4199, 0.2833, 0.5398



# Inverse Universe

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



31.9260, 0.3331, 0.2550



45.8533, 0.3391, 0.2390



30.5226, 0.3752, 0.2998



11.3618, 0.3169, 0.3109



9.7171, 0.3818, 0.1877



0.5117, 0.3677, 0.1799



# Previews

## White Background



This preview shows how the Yxy color 49.7885, 0.2975, 0.4168 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 49.7885, 0.2975, 0.4168 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

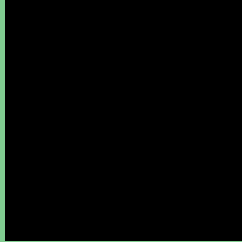
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.7885, 0.2975, 0.4168**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.7885, 0.2975, 0.4168.

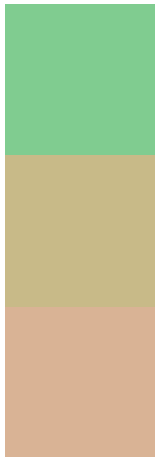


This preview shows how white text looks on a background with the Yxy color 49.7885, 0.2975, 0.4168.

# 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

49.7885, 0.2975, 0.4168

### Protanopia

49.1747, 0.3655, 0.3922

### Deuteranopia

49.1618, 0.3727, 0.3652



## Tritanopia

49.4841, 0.2638, 0.3076

# Trichromacy



## Original Color

49.7885, 0.2975, 0.4168



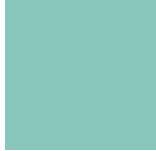
## Protanomaly

49.0027, 0.3379, 0.4020



## Deuteranomaly

48.3873, 0.3425, 0.3831



## Tritanomaly

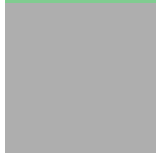
49.2944, 0.2757, 0.3442

# Monochromacy



## Original Color

49.7885, 0.2975, 0.4168



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

44.5104, 0.3063, 0.3601

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7885, 0.2975, 0.4168 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(128, 204, 144)` looks like.

```
.text, #text, p{  
    color:rgb(128, 204, 144)  
}
```

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(128, 204, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 204, 144) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7885, 0.2975, 0.4168 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(128, 204, 144) }
```

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

```
.border{ border-color:rgb(128, 204, 144) }
```

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

Here you see how a box with a 4 pixel rgb(128, 204, 144) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 204, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 204, 144);  
box-shadow:4px 4px 4px 4px rgb(128, 204,  
144) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7885, 0.2975, 0.4168 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 204, 144) }
```

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

```
.background{ background-color: rgb(128,  
204, 144) }
```

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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