

# Converting Colors

$Y_{xy}(47.9935, 0.2491, 0.3707)$

Have a look what the booklet for  
Yxy(47.9935, 0.2491, 0.3707)  
contains.

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# Color

**Yxy(48.1391, 0.2491, 0.3714)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46CDB1
RGB	70, 205, 177
RGB Percent	27%, 80%, 69%
CMY	0.7259, 0.1960, 0.3058
CMYK	0.66, 0.00, 0.14, 0.20
HSL	168°, 57%, 54%
HSV	168°, 66%, 80%
XYZ	32.2872, 48.1391, 49.1890
YIQ	161.4430, -71.4720, -37.3280

# Conversions

## Conversions Part 2

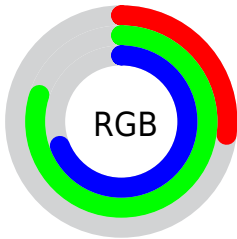
Format	Color
<a href="#">RYB</a>	<a href="#">70, 145, 205</a>
Decimal	<a href="#">4640177</a>
CIELab	<a href="#">74.91, -42.99, 3.28</a>
CIELCh	<a href="#">75, 43.117, 175.631</a>
Yxy	<a href="#">48.1391, 0.2491, 0.3714</a>
Android (android.graphics.Color)	<a href="#">4282830257</a> ( <a href="#">0xFF46CDB1</a> )
YUV	<a href="#">161.4430, 7.6696, -80.1955</a>
Hunter-Lab	<a href="#">69.3823, -38.3539, 6.5337</a>

# Details

The Yxy color **48.1391, 0.2491, 0.3714** is a light color, and the websafe version is hex **66CC99**. The color can be described as light muted spring green. A complement of this color would be **18.2267, 0.4824, 0.2974**, and the grayscale version is **35.8329, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3897, 0.2588, 0.3546**, and **23.2934, 0.2394, 0.3817** is the 20% darker color. If you saturate the color by 10%, you get **47.3389, 0.2453, 0.3790**, and if you desaturate by 10%, it is **49.2083, 0.2548, 0.3640**.

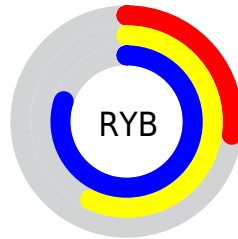
# Distribution



Red (27%)

Green (80%)

Blue (69%)



Red (27%)

Yellow (57%)

Blue (80%)

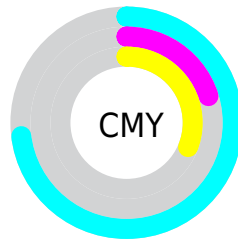


Cyan (66%)

Magenta (0%)

Yellow (14%)

Black (20%)



Cyan (73%)

Magenta (20%)


Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1391, 0.2491, 0.3714 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 48.1391, 0.2491, 0.3714 by changing the saturation by 10% instead.




 48.1391, 0.2491,  
0.3714

 48.1391, 0.2491,  
0.3714


379.3432, 0.2807,  
0.3501

 33.9371, 0.2413,  
0.3768


 87.4115, 0.2605,  
0.3636

 22.8452, 0.2314,  
0.3836


 113.2506, 0.2648,  
0.3607

 14.4793, 0.2183,  
0.3928


 143.7375, 0.2685,  
0.3583

 8.4548, 0.2004,  
0.4056

 179.2567, 0.2716,  
0.3561

 4.3873, 0.1746,  
0.4247

220.1924, 0.2743,  
0.3543

 1.8925, 0.1263,  
0.4599

266.9292, 0.2767,

 0.5439, 0.0000,

0.3527

0.6000

319.8513, 0.2788,  
0.3513

0.0000, 0.0000,  
0.0000

48.1391, 0.2491,  
0.3714

48.1391, 0.2491,  
0.3714

47.3389, 0.2453,  
0.3790

49.2083, 0.2548,  
0.3640

46.7742, 0.2434,  
0.3866

50.5649, 0.2624,  
0.3568

46.4124, 0.2434,  
0.3941

52.2319, 0.2715,  
0.3499

46.2958, 0.2437,  
0.3972

54.2285, 0.2818,  
0.3435

56.5724, 0.2932,  
0.3375

■ 59.2799, 0.3053,  
0.3320

■ 62.3664, 0.3179,  
0.3270

■ 65.8463, 0.3306,  
0.3226

■ 69.7332, 0.3434,  
0.3187

# Harmonies

## Analogous

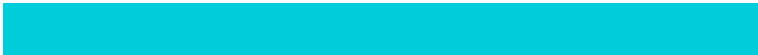
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.1391, 0.3013, 0.4218



48.1391, 0.2491, 0.3714



48.1391, 0.2157, 0.3105

# Triad

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



48.1391, 0.2491, 0.3714



48.1391, 0.2596, 0.2376



48.1391, 0.4311, 0.3786

# Complementary

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



48.1391, 0.2491, 0.3714



18.2267, 0.4824, 0.2974

# 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.



48.1391, 0.4198, 0.3326



48.1391, 0.2491, 0.3714



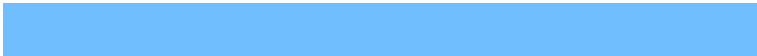
48.1391, 0.3153, 0.2556

# Square

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



48.1391, 0.2491, 0.3714



48.1391, 0.2217, 0.2393



48.1391, 0.3757, 0.2892



48.1391, 0.4076, 0.4183



# Rectangle

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



48.1391, 0.2491, 0.3714



48.1391, 0.2069, 0.2768



48.1391, 0.3757, 0.2892



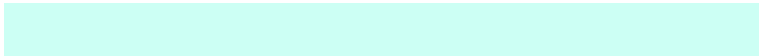
48.1391, 0.4314, 0.3634

# Sweetspot

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



48.1410, 0.2491, 0.3714



90.9152, 0.2882, 0.3400



46.7710, 0.3186, 0.5303



19.2285, 0.2850, 0.3417



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.



48.1410, 0.2491, 0.3714



77.1088, 0.2443, 0.3821



33.2435, 0.2215, 0.2696



12.6857, 0.3011, 0.3338



28.8312, 0.2434, 0.3961



1.4977, 0.2393, 0.3814



# Inverse Universe

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



18.2267, 0.4824, 0.2974



24.6883, 0.5401, 0.2988



24.1830, 0.4900, 0.3742



11.2511, 0.3258, 0.3242



8.1975, 0.6038, 0.3100

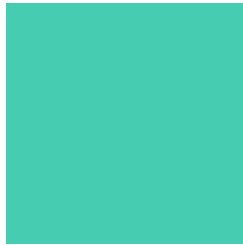


0.4342, 0.5487, 0.2796



# Previews

## White Background



This preview shows how the Yxy color 48.1391, 0.2491, 0.3714 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 48.1391, 0.2491, 0.3714 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

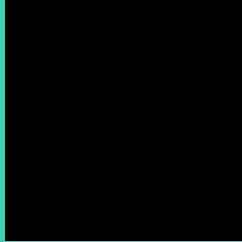
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

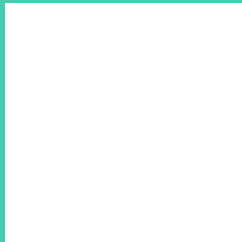
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.1391, 0.2491, 0.3714**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1391, 0.2491, 0.3714.

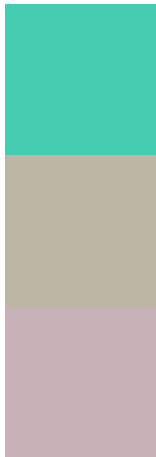


This preview shows how white text looks on a background with the Yxy color 48.1391, 0.2491, 0.3714.

# 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

48.1391, 0.2491, 0.3714

### Protanopia

47.1197, 0.3335, 0.3511

### Deuteranopia

47.1425, 0.3280, 0.3216



## Tritanopia

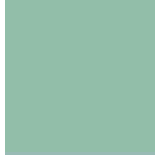
48.2927, 0.2346, 0.3064

# Trichromacy



## Original Color

48.1391, 0.2491, 0.3714



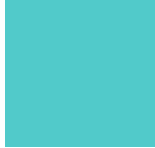
## Protanomaly

45.8025, 0.2932, 0.3589



## Deuteranomaly

45.6491, 0.2900, 0.3373



## Tritanomaly

48.2547, 0.2397, 0.3288

# Monochromacy



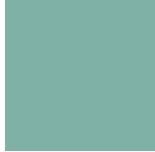
## Original Color

48.1391, 0.2491, 0.3714



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

38.8235, 0.2801, 0.3441

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1391, 0.2491, 0.3714 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(70, 205, 177)` looks like.

```
.text, #text, p{  
  color:rgb(70, 205, 177)  
}
```

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(70, 205, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 205, 177) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1391, 0.2491, 0.3714 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(70, 205, 177) }
```

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

```
.border{ border-color:rgb(70, 205, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 205, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 205, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 205, 177);  
box-shadow:4px 4px 4px 4px rgb(70, 205,  
177) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1391, 0.2491, 0.3714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 205, 177) }
```

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

```
.background{ background-color: rgb(70, 205,  
177) }
```

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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