

# Converting Colors

$Y_{xy}(46.7998, 0.2692, 0.3754)$

Have a look what the booklet for  
Yxy(46.7998, 0.2692, 0.3754)  
contains.

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# Color

**Yxy(46.7998, 0.2692, 0.3754)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BC7A8
RGB	107, 199, 168
RGB Percent	42%, 78%, 66%
CMY	0.5801, 0.2196, 0.3412
CMYK	0.46, 0.00, 0.16, 0.22
HSL	160°, 45%, 60%
HSV	160°, 46%, 78%
XYZ	33.5602, 46.7998, 44.3065
YIQ	167.9580, -44.8810, -29.1450

# Conversions

## Conversions Part 2

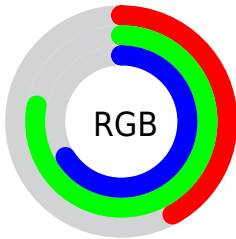
<b>Format</b>	<b>Color</b>
<b>RYB</b>	107, 162, 199
Decimal	7063464
CIELab	74.06, -34.80, 7.07
CIElCh	74, 35.509, 168.511
Yxy	46.7998, 0.2692, 0.3754
Android (android.graphics.Color)	4285253544 (0xFF6BC7A8)
YUV	167.9580, 0.0207, -53.4602
Hunter-Lab	68.4104, -32.1511, 9.4877

# Details

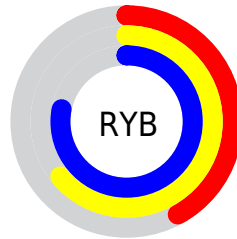
The Yxy color **46.7998, 0.2692, 0.3754** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **24.5087, 0.3932, 0.2885**, and the grayscale version is **39.1612, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6342, 0.2772, 0.3655**, and **22.1899, 0.2568, 0.3905** is the 20% darker color. If you saturate the color by 10%, you get **45.4623, 0.2628, 0.3876**, and if you desaturate by 10%, it is **48.4379, 0.2770, 0.3638**.

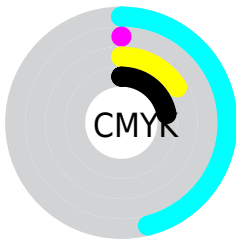
# Distribution



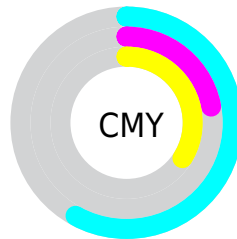
- Red (42%)
- Green (78%)
- Blue (66%)



- Red (42%)
- Yellow (64%)
- Blue (78%)



- Cyan (46%)
- Magenta (0%)
- Yellow (16%)
- Black (22%)



- Cyan (58%)
- Magenta (22%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7998, 0.2692, 0.3754 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 46.7998, 0.2692, 0.3754 by changing the saturation by 10% instead.





 46.7998, 0.2692,  
0.3754


 46.7998, 0.2692,  
0.3754


374.0148, 0.2912,  
0.3516

 32.8774, 0.2636,  
0.3816


 85.4147, 0.2772,  
0.3666

 22.0326, 0.2565,  
0.3896


 110.8760, 0.2803,  
0.3633

 13.8808, 0.2469,  
0.4005


 140.9524, 0.2828,  
0.3606

 8.0378, 0.2334,  
0.4161

 176.0284, 0.2850,  
0.3583

 4.1192, 0.2130,  
0.4403

216.4882, 0.2868,  
0.3562

 1.7404, 0.1755,  
0.4847

262.7162, 0.2885,

 0.4496, 0.0000,

0.3545

1.0000

315.0970, 0.2899,  
0.3529

0.0000, 0.0000,  
0.0000

46.7998, 0.2692,  
0.3754

46.7998, 0.2692,  
0.3754

45.4623, 0.2628,  
0.3876

48.4379, 0.2770,  
0.3638

44.3997, 0.2582,  
0.4003

50.3889, 0.2860,  
0.3531

43.5915, 0.2554,  
0.4132


52.6713, 0.2958,  
0.3431


43.0116, 0.2547,  
0.4262


55.3004, 0.3061,  
0.3341


42.6269, 0.2559,  
0.4390

58.2908, 0.3168,  
0.3260

 42.5073, 0.2566,  
0.4438

 61.6559, 0.3275,  
0.3188

 65.4087, 0.3382,  
0.3124

 67.3615, 0.3399,  
0.3060

 67.7279, 0.3347,  
0.2994

# Harmonies

## Analogous

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



46.7998, 0.3157, 0.4110



46.7998, 0.2692, 0.3754



46.7998, 0.2360, 0.3260

# Triad

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



46.7998, 0.2692, 0.3754



46.7998, 0.2591, 0.2502



46.7998, 0.4118, 0.3632

# Complementary

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



46.7998, 0.2692, 0.3754



24.5087, 0.3932, 0.2885

# 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.



46.7998, 0.3950, 0.3238



46.7998, 0.2692, 0.3754



46.7998, 0.3034, 0.2616

# Square

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



46.7998, 0.2692, 0.3754



46.7998, 0.2308, 0.2566



46.7998, 0.3539, 0.2878



46.7998, 0.3994, 0.3981



# Rectangle

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



46.7998, 0.2692, 0.3754



46.7998, 0.2248, 0.2955



46.7998, 0.3539, 0.2878



46.7998, 0.4094, 0.3501

# Sweetspot

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



46.8017, 0.2692, 0.3754



93.0953, 0.2978, 0.3413



47.4176, 0.3295, 0.4627



19.7224, 0.2956, 0.3433



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

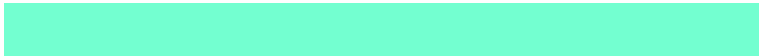


# Same Dimension

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



46.8017, 0.2692, 0.3754



79.6873, 0.2630, 0.3871



42.0378, 0.2480, 0.3087



12.0044, 0.3028, 0.3369



27.3516, 0.2561, 0.4420



1.3082, 0.2488, 0.4155



# Inverse Universe

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



24.5087, 0.3932, 0.2885



36.0749, 0.4200, 0.2812



26.8451, 0.4276, 0.3475



10.6950, 0.3238, 0.3212



8.0839, 0.5603, 0.2860



0.3963, 0.5010, 0.2534



# Previews

## White Background



This preview shows how the Yxy color 46.7998, 0.2692, 0.3754 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 46.7998, 0.2692, 0.3754 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

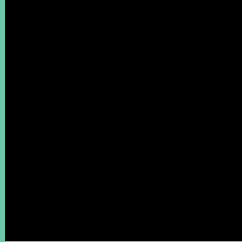
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.7998, 0.2692, 0.3754**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.7998, 0.2692, 0.3754.



This preview shows how white text looks on a background with the Yxy color 46.7998, 0.2692, 0.3754.

# 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

46.7998, 0.2692, 0.3754

### Protanopia

45.9300, 0.3388, 0.3579

### Deuteranopia

46.0946, 0.3378, 0.3316



## Tritanopia

46.5949, 0.2504, 0.3066

# Trichromacy



**Original Color**

46.7998, 0.2692, 0.3754

**Protanomaly**

45.5202, 0.3086, 0.3640

**Deuteranomaly**

45.4367, 0.3085, 0.3468

**Tritanomaly**

46.5027, 0.2570, 0.3303

# Monochromacy



**Original Color**

46.7998, 0.2692, 0.3754

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

41.1783, 0.2936, 0.3450

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7998, 0.2692, 0.3754 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, 199, 168)` looks like.

```
.text, #text, p{  
    color:rgb(107, 199, 168)  
}
```

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, 199, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 199, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7998, 0.2692, 0.3754 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, 199, 168) }
```

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

```
.border{ border-color:rgb(107, 199, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 199, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 199, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 199, 168);  
box-shadow:4px 4px 4px 4px rgb(107, 199,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7998, 0.2692, 0.3754 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 199, 168) }
```

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

```
.background{ background-color: rgb(107,  
199, 168) }
```

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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