

# Converting Colors

$Y_{xy}(67.1626, 0.2696, 0.4123)$

Have a look what the booklet for  
Yxy(67.1626, 0.2696, 0.4123)  
contains.

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# Color

**Yxy(67.1084, 0.2697, 0.4124)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66EEB0
RGB	102, 238, 176
RGB Percent	40%, 93%, 69%
CMY	0.6003, 0.0666, 0.3097
CMYK	0.57, 0.00, 0.26, 0.07
HSL	153°, 80%, 67%
HSV	153°, 57%, 93%
XYZ	43.8873, 67.1084, 51.7307
YIQ	190.2680, -61.1540, -48.1140

# Conversions

## Conversions Part 2

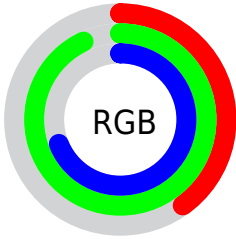
Format	Color
<a href="#">RYB</a>	<a href="#">102, 190, 238</a>
Decimal	<a href="#">6745776</a>
CIELab	<a href="#">85.56, -51.29, 19.04</a>
CIElCh	<a href="#">86, 54.714, 159.635</a>
Yxy	<a href="#">67.1084, 0.2697, 0.4124</a>
Android (android.graphics.Color)	<a href="#">4284935856 (0xFF66EEB0)</a>
YUV	<a href="#">190.2680, -7.0341, -77.4110</a>
Hunter-Lab	<a href="#">81.9197, -47.7307, 19.9033</a>

# Details

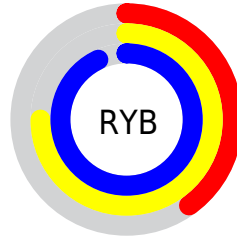
The Yxy color **67.1084, 0.2697, 0.4124** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **30.3460, 0.4043, 0.2627**, and the grayscale version is **51.7160, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1327, 0.2727, 0.3549**, and **34.7108, 0.2581, 0.4360** is the 20% darker color. If you saturate the color by 10%, you get **65.5032, 0.2663, 0.4303**, and if you desaturate by 10%, it is **69.1522, 0.2748, 0.3951**.

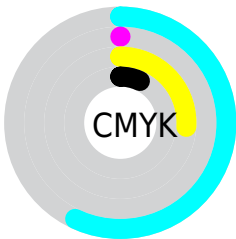
# Distribution



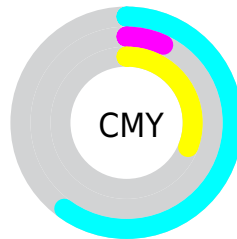
- Red (40%)
- Green (93%)
- Blue (69%)



- Red (40%)
- Yellow (75%)
- Blue (93%)



- Cyan (57%)
- Magenta (0%)
- Yellow (26%)
- Black (7%)




- Cyan (60%)
- Magenta (7%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.1084, 0.2697, 0.4124 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 67.1084, 0.2697, 0.4124 by changing the saturation by 10% instead.



 67.1084, 0.2697,  
0.4124


 67.1084, 0.2697,  
0.4124

450.3305, 0.2909,  
0.3710

 49.1727, 0.2645,  
0.4226


 115.0757, 0.2773,  
0.3975

 34.7565, 0.2579,  
0.4356


 145.8762, 0.2802,  
0.3918

 23.4754, 0.2493,  
0.4526


 181.7336, 0.2827,  
0.3870

 14.9449, 0.2375,  
0.4761

223.0326, 0.2848,  
0.3829

 8.7807, 0.2206,  
0.5100

270.1573, 0.2866,  
0.3794

 4.5984, 0.1945,  
0.5629

323.4923, 0.2882,

 2.0136, 0.1308,

0.3762

0.6842

383.4219, 0.2897,  
0.3735

0.6154, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

67.1084, 0.2697,  
0.4124

67.1084, 0.2697,  
0.4124

65.5032, 0.2663,  
0.4303

69.1522, 0.2748,  
0.3951

64.2926, 0.2648,  
0.4483


71.6584, 0.2814,  
0.3788

63.4370, 0.2654,  
0.4661

74.6584, 0.2890,  
0.3636


62.8820, 0.2680,  
0.4832

78.1786, 0.2974,  
0.3497

 62.7553, 0.2689,  
0.4880

 82.2433, 0.3062,  
0.3372

 86.8755, 0.3153,  
0.3260

 89.4370, 0.3154,  
0.3156

 89.6341, 0.3135,  
0.3127

# Harmonies

## Analogous

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



67.1084, 0.3341, 0.4510



67.1084, 0.2697, 0.4124



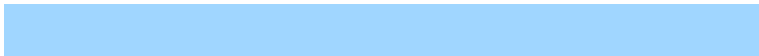
67.1084, 0.2202, 0.3437

# Triad

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



67.1084, 0.2697, 0.4124



67.1084, 0.2274, 0.2248



67.1084, 0.4454, 0.3557

# Complementary

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



67.1084, 0.2697, 0.4124



30.3460, 0.4043, 0.2627

# 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.



67.1084, 0.4114, 0.3055



67.1084, 0.2697, 0.4124



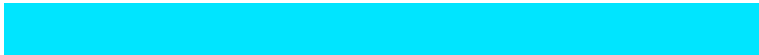
67.1084, 0.2798, 0.2339

# Square

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



67.1084, 0.2697, 0.4124



67.1084, 0.1987, 0.2389



67.1084, 0.3479, 0.2625



67.1084, 0.4381, 0.4057



# Rectangle

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



67.1084, 0.2697, 0.4124



67.1084, 0.2010, 0.2986



67.1084, 0.3479, 0.2625



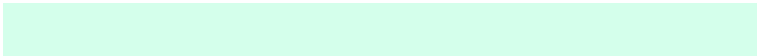
67.1084, 0.4385, 0.3386

# Sweetspot

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



67.1111, 0.2697, 0.4124



91.4781, 0.2975, 0.3496



70.1584, 0.3415, 0.4931



19.3913, 0.2958, 0.3523



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.



67.1111, 0.2697, 0.4124



76.2742, 0.2658, 0.4340



67.5406, 0.2401, 0.3231



17.8004, 0.3042, 0.3400



35.0347, 0.2682, 0.4853



2.9346, 0.2619, 0.4629



# Inverse Universe

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



30.3460, 0.4043, 0.2627



29.3689, 0.4353, 0.2541



29.5423, 0.4848, 0.3342



15.8786, 0.3222, 0.3183



10.7752, 0.5147, 0.2609

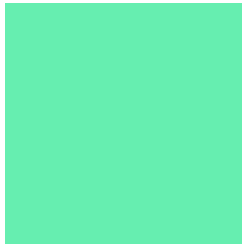


0.9162, 0.4827, 0.2433



# Previews

## White Background



This preview shows how the Yxy color 67.1084, 0.2697, 0.4124 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

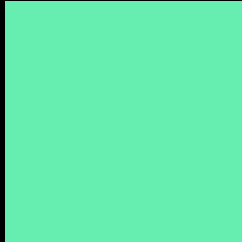
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.1084, 0.2697, 0.4124 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 67.1084, 0.2697, 0.4124**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.1084, 0.2697, 0.4124.



This preview shows how white text looks on a background with the Yxy color 67.1084, 0.2697, 0.4124.

# 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

67.1084, 0.2697, 0.4124

### Protanopia

65.9361, 0.3579, 0.3830

### Deuteranopia

65.6593, 0.3594, 0.3517



## Tritanopia

67.0391, 0.2433, 0.3071

# Trichromacy



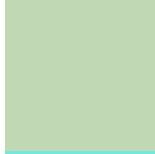
## Original Color

67.1084, 0.2697, 0.4124



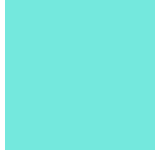
## Protanomaly

64.3638, 0.3188, 0.3947



## Deuteranomaly

63.6135, 0.3194, 0.3726



## Tritanomaly

66.6467, 0.2526, 0.3428

# Monochromacy



## Original Color

67.1084, 0.2697, 0.4124



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

55.3975, 0.2918, 0.3579

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.1084, 0.2697, 0.4124 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(102, 238, 176)` looks like.

```
.text, #text, p{  
    color:rgb(102, 238, 176)  
}
```

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(102, 238, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 238, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 67.1084, 0.2697, 0.4124 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(102, 238, 176) }
```

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

```
.border{ border-color:rgb(102, 238, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 238, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 238, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 238, 176);  
box-shadow:4px 4px 4px 4px rgb(102, 238,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.1084, 0.2697, 0.4124 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 238, 176) }
```

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

```
.background{ background-color: rgb(102,  
238, 176) }
```

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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