

# Converting Colors

$Yxy(64.8673, 0.2784, 0.3988)$

Have a look what the booklet for  
Yxy(64.8673, 0.2784, 0.3988)  
contains.

<b>Yxy(64.8018, 0.2787, 0.3994)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(64.8018, 0.2787, 0.3994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7EE7B2
RGB	126, 231, 178
RGB Percent	49%, 91%, 70%
CMY	0.5057, 0.0941, 0.3021
CMYK	0.45, 0.00, 0.23, 0.09
HSL	150°, 69%, 70%
HSV	150°, 45%, 91%
XYZ	45.2185, 64.8018, 52.2276
YIQ	193.5630, -45.5670, -38.7430

# Conversions

## Conversions Part 2

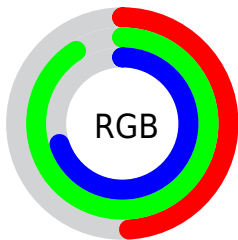
<b>Format</b>	<b>Color</b>
<b>RYB</b>	126, 196, 231
Decimal	8316850
CIELab	84.38, -42.35, 16.51
CIElCh	84, 45.457, 158.699
Yxy	64.8018, 0.2787, 0.3994
Android (android.graphics.Color)	4286506930 (0xFF7EE7B2)
YUV	193.5630, -7.6726, -59.2528
Hunter-Lab	80.4996, -40.6066, 17.8827

# Details

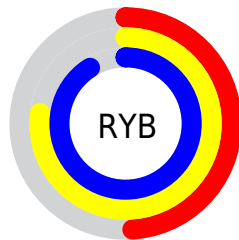
The Yxy color **64.8018, 0.2787, 0.3994** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **35.1809, 0.3717, 0.2692**, and the grayscale version is **53.7499, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.5278, 0.2820, 0.3519**, and **33.3696, 0.2694, 0.4197** is the 20% darker color. If you saturate the color by 10%, you get **62.7966, 0.2737, 0.4185**, and if you desaturate by 10%, it is **67.2576, 0.2850, 0.3814**.

# Distribution



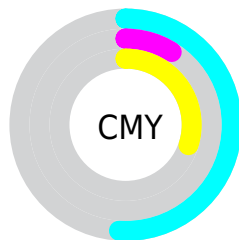
- Red (49%)
- Green (91%)
- Blue (70%)



- Red (49%)
- Yellow (77%)
- Blue (91%)



- Cyan (45%)
- Magenta (0%)
- Yellow (23%)
- Black (9%)




- Cyan (51%)
- Magenta (9%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.8018, 0.2787, 0.3994 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 64.8018, 0.2787, 0.3994 by changing the saturation by 10% instead.





 64.8018, 0.2787,  
0.3994

 64.8018, 0.2787,  
0.3994


442.0794, 0.2955,  
0.3645

 47.3004, 0.2746,  
0.4080


 111.7649, 0.2848,  
0.3868

 33.2732, 0.2693,  
0.4189


 141.9953, 0.2871,  
0.3821

 22.3358, 0.2624,  
0.4334


 177.2375, 0.2890,  
0.3780

 14.1039, 0.2528,  
0.4532

217.8759, 0.2907,  
0.3746

 8.1929, 0.2390,  
0.4821

264.2949, 0.2921,  
0.3715

 4.2186, 0.2173,  
0.5277

316.8789, 0.2934,

 1.7966, 0.1679,

0.3689

0.6293

376.0123, 0.2945,  
0.3666

0.4851, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

64.8018, 0.2787,  
0.3994

64.8018, 0.2787,  
0.3994

62.7966, 0.2737,  
0.4185

67.2576, 0.2850,  
0.3814

61.2049, 0.2704,  
0.4383

70.1826, 0.2922,  
0.3647


59.9962, 0.2689,  
0.4584


73.6039, 0.3000,  
0.3495


59.1325, 0.2695,  
0.4780

77.5442, 0.3082,  
0.3358

 58.5667, 0.2720,  
0.4967

 82.0248, 0.3165,  
0.3236

 58.3733, 0.2736,  
0.5049

 85.1894, 0.3182,  
0.3125

 85.6320, 0.3138,  
0.3058

# Harmonies

## Analogous

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



64.8018, 0.3338, 0.4306



64.8018, 0.2787, 0.3994



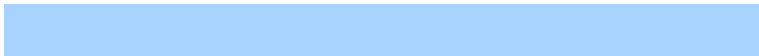
64.8018, 0.2352, 0.3439

# Triad

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



64.8018, 0.2787, 0.3994



64.8018, 0.2388, 0.2397



64.8018, 0.4240, 0.3522

# Complementary

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



64.8018, 0.2787, 0.3994



35.1809, 0.3717, 0.2692

# 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.



64.8018, 0.3943, 0.3084



64.8018, 0.2787, 0.3994



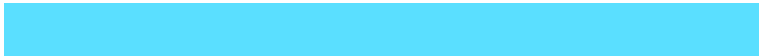
64.8018, 0.2837, 0.2466

# Square

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



64.8018, 0.2787, 0.3994



64.8018, 0.2144, 0.2535



64.8018, 0.3410, 0.2711



64.8018, 0.4199, 0.3948



# Rectangle

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



64.8018, 0.2787, 0.3994



64.8018, 0.2177, 0.3062



64.8018, 0.3410, 0.2711



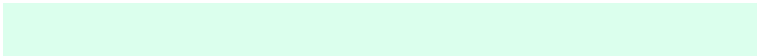
64.8018, 0.4176, 0.3373

# Sweetspot

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



64.8044, 0.2787, 0.3994



92.7388, 0.3011, 0.3475



68.3957, 0.3418, 0.4563



19.6354, 0.2993, 0.3507



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.



64.8044, 0.2787, 0.3994



78.6143, 0.2738, 0.4182



67.2625, 0.2528, 0.3310



16.2075, 0.3049, 0.3411



32.7498, 0.2728, 0.5021



2.4388, 0.2653, 0.4752



# Inverse Universe

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



35.1809, 0.3717, 0.2692



36.9934, 0.3912, 0.2577



33.4763, 0.4333, 0.3274



14.4889, 0.3214, 0.3172



10.2657, 0.4932, 0.2490

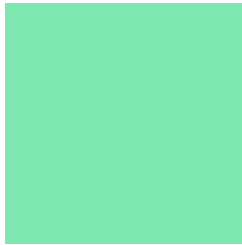


0.7774, 0.4612, 0.2314



# Previews

## White Background



This preview shows how the Yxy color 64.8018, 0.2787, 0.3994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

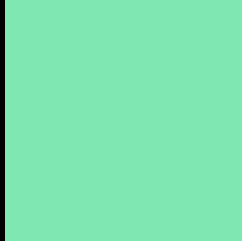
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.8018, 0.2787, 0.3994 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 64.8018, 0.2787, 0.3994**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.8018, 0.2787, 0.3994.



This preview shows how white text looks on a background with the Yxy color 64.8018, 0.2787, 0.3994.

# 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

64.8018, 0.2787, 0.3994

### Protanopia

63.9205, 0.3533, 0.3770

### Deuteranopia

64.0525, 0.3559, 0.3487



## Tritanopia

64.8770, 0.2529, 0.3071

# Trichromacy



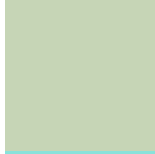
## Original Color

64.8018, 0.2787, 0.3994



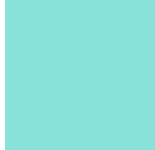
## Protanomaly

63.1308, 0.3216, 0.3856



## Deuteranomaly

62.9717, 0.3229, 0.3662



## Tritanomaly

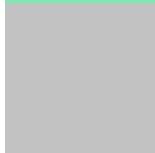
64.6889, 0.2620, 0.3389

# Monochromacy



## Original Color

64.8018, 0.2787, 0.3994



## Achromatopsia

53.9479, 0.3127, 0.3290



## Achromatomaly

56.6915, 0.2976, 0.3533

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.8018, 0.2787, 0.3994 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(126, 231, 178)` looks like.

```
.text, #text, p{  
    color:rgb(126, 231, 178)  
}
```

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(126, 231, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(126, 231, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 64.8018, 0.2787, 0.3994 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(126, 231, 178) }
```

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

```
.border{ border-color:rgb(126, 231, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(126, 231, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(126, 231, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(126, 231, 178);  
box-shadow:4px 4px 4px 4px rgb(126, 231,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.8018, 0.2787, 0.3994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(126, 231, 178) }
```

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

```
.background{ background-color: rgb(126,  
231, 178) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor