

# Converting Colors

$Y_{xy}(65.3941, 0.2686, 0.4004)$

Have a look what the booklet for  
Yxy(65.3941, 0.2686, 0.4004)  
contains.

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# Color

**Yxy(65.3076, 0.2686, 0.4003)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BEAB5
RGB	107, 234, 181
RGB Percent	42%, 92%, 71%
CMY	0.5807, 0.0823, 0.2901
CMYK	0.54, 0.00, 0.23, 0.08
HSL	155°, 75%, 67%
HSV	155°, 54%, 92%
XYZ	43.8212, 65.3076, 54.0179
YIQ	189.9850, -58.6790, -43.4070

# Conversions

## Conversions Part 2

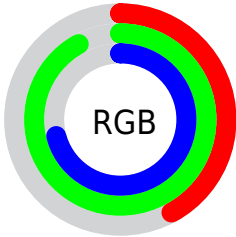
<b>Format</b>	<b>Color</b>
<b>RYB</b>	107, 187, 234
Decimal	7072437
CIELab	84.64, -47.54, 15.19
CIELCh	85, 49.906, 162.275
Yxy	65.3076, 0.2686, 0.4003
Android (android.graphics.Color)	4285262517 (0xFF6BEAB5)
YUV	189.9850, -4.4296, -72.7778
Hunter-Lab	80.8131, -44.6307, 16.9380

# Details

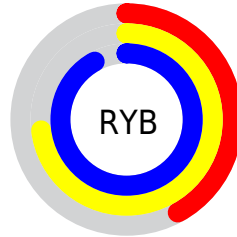
The Yxy color **65.3076, 0.2686, 0.4003** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **30.5310, 0.4037, 0.2707**, and the grayscale version is **51.5266, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.7414, 0.2718, 0.3490**, and **33.4341, 0.2567, 0.4196** is the 20% darker color. If you saturate the color by 10%, you get **63.6651, 0.2643, 0.4164**, and if you desaturate by 10%, it is **67.3757, 0.2745, 0.3849**.

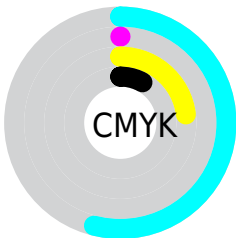
# Distribution



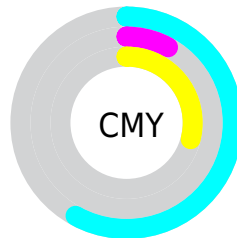
- Red (42%)
- Green (92%)
- Blue (71%)



- Red (42%)
- Yellow (73%)
- Blue (92%)



- Cyan (54%)
- Magenta (0%)
- Yellow (23%)
- Black (8%)




- Cyan (58%)
- Magenta (8%)
- Yellow (29%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.3076, 0.2686, 0.4003 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 65.3076, 0.2686, 0.4003 by changing the saturation by 10% instead.




 65.3076, 0.2686,  
0.4003


 65.3076, 0.2686,  
0.4003

443.8965, 0.2901,  
0.3650


 47.7105, 0.2634,  
0.4090


 112.4920, 0.2763,  
0.3876

 33.5977, 0.2568,  
0.4200


 142.8481, 0.2792,  
0.3828

 22.5847, 0.2482,  
0.4345


 178.2260, 0.2817,  
0.3787

 14.2872, 0.2366,  
0.4545

219.0101, 0.2839,  
0.3752

 8.3207, 0.2199,  
0.4834

265.5848, 0.2857,  
0.3721

 4.3008, 0.1945,  
0.5289

318.3346, 0.2874,

 1.8432, 0.1299,

0.3695

0.6299

377.6436, 0.2888,  
0.3671

■ 0.5139, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 65.3076, 0.2686,  
0.4003

■ 65.3076, 0.2686,  
0.4003

■ 63.6651, 0.2643,  
0.4164

■ 67.3757, 0.2745,  
0.3849

■ 62.4073, 0.2620,  
0.4328

■ 69.8909, 0.2818,  
0.3703

■ 61.4986, 0.2617,  
0.4492


■ 72.8826, 0.2901,  
0.3568

■ 60.8923, 0.2634,  
0.4652


■ 76.3752, 0.2991,  
0.3445

 60.6414, 0.2650,  
0.4741

 80.3917, 0.3086,  
0.3334

 84.9533, 0.3182,  
0.3235

 86.9720, 0.3172,  
0.3142

 87.3319, 0.3137,  
0.3088

# Harmonies

## Analogous

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



65.3076, 0.3277, 0.4391



65.3076, 0.2686, 0.4003



65.3076, 0.2241, 0.3372

# Triad

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



65.3076, 0.2686, 0.4003



65.3076, 0.2371, 0.2320



65.3076, 0.4360, 0.3590

# Complementary

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



65.3076, 0.2686, 0.4003



30.5310, 0.4037, 0.2707

# 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.



65.3076, 0.4077, 0.3116



65.3076, 0.2686, 0.4003



65.3076, 0.2877, 0.2421

# Square

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



65.3076, 0.2686, 0.4003



65.3076, 0.2080, 0.2436



65.3076, 0.3510, 0.2703



65.3076, 0.4266, 0.4048



# Rectangle

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



65.3076, 0.2686, 0.4003



65.3076, 0.2074, 0.2967



65.3076, 0.3510, 0.2703



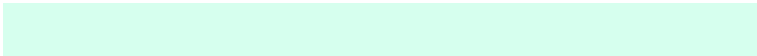
65.3076, 0.4306, 0.3429

# Sweetspot

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



65.3102, 0.2686, 0.4003



92.0184, 0.2975, 0.3466



67.5934, 0.3379, 0.4862



19.5018, 0.2956, 0.3491



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.



65.3102, 0.2686, 0.4003



77.1961, 0.2640, 0.4180



63.2051, 0.2415, 0.3181



17.0095, 0.3037, 0.3390



34.0992, 0.2644, 0.4717



2.6967, 0.2583, 0.4498



# Inverse Universe

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



30.5310, 0.4037, 0.2707



30.9280, 0.4334, 0.2626



30.9081, 0.4685, 0.3386



15.1583, 0.3227, 0.3192



10.3448, 0.5305, 0.2696

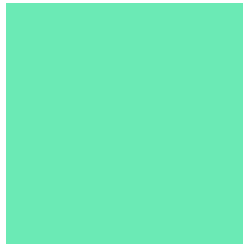


0.8311, 0.4947, 0.2499



# Previews

## White Background



This preview shows how the Yxy color 65.3076, 0.2686, 0.4003 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 65.3076, 0.2686, 0.4003 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 65.3076, 0.2686, 0.4003**

## Background



This preview shows how black text looks on a background with the Yxy color 65.3076, 0.2686, 0.4003.

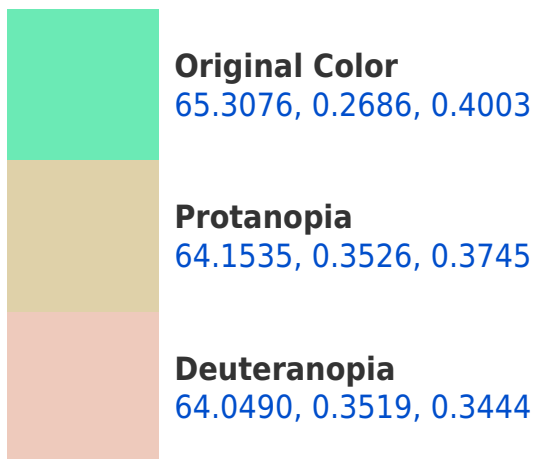


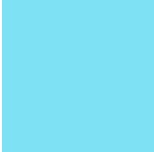
This preview shows how white text looks on a background with the Yxy color 65.3076, 0.2686, 0.4003.

# 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

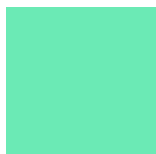




## **Tritanopia**

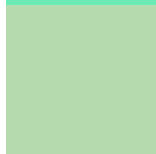
65.3600, 0.2448, 0.3069

# Trichromacy



## Original Color

65.3076, 0.2686, 0.4003



## Protanomaly

62.9837, 0.3158, 0.3849



## Deuteranomaly

62.5431, 0.3147, 0.3642



## Tritanomaly

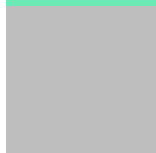
65.1810, 0.2532, 0.3390

# Monochromacy



## Original Color

65.3076, 0.2686, 0.4003



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

55.2041, 0.2919, 0.3538

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.3076, 0.2686, 0.4003 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, 234, 181)` looks like.

```
.text, #text, p{  
    color:rgb(107, 234, 181)  
}
```

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, 234, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 234, 181) }
```

## Border

The CSS property to change the border of an element to Yxy 65.3076, 0.2686, 0.4003 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, 234, 181) }
```

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

```
.border{ border-color:rgb(107, 234, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 234, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 234, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 234, 181);  
box-shadow:4px 4px 4px 4px rgb(107, 234,  
181) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.3076, 0.2686, 0.4003 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 234, 181) }
```

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

```
.background{ background-color: rgb(107,  
234, 181) }
```

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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