

# Converting Colors

$Y_{xy}(55.6059, 0.2784, 0.4996)$

Have a look what the booklet for  
Yxy(55.6059, 0.2784, 0.4996)  
contains.

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# Color

**Yxy(55.6006, 0.2784, 0.4995)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DE171
RGB	45, 225, 113
RGB Percent	18%, 88%, 44%
CMY	0.8234, 0.1176, 0.5568
CMYK	0.80, 0.00, 0.50, 0.12
HSL	143°, 75%, 53%
HSV	143°, 80%, 88%
XYZ	30.9894, 55.6006, 24.7225
YIQ	158.4120, -71.3280, -72.9920

# Conversions

## Conversions Part 2

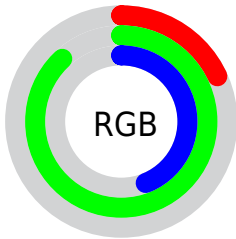
<b>Format</b>	<b>Color</b>
<b>RYB</b>	45, 176, 225
Decimal	3006833
CIELab	79.39, -67.01, 42.45
CIELCh	79, 79.323, 147.650
Yxy	55.6006, 0.2784, 0.4995
Android (android.graphics.Color)	4281196913 (0xFF2DE171)
YUV	158.4120, -22.3881, -99.4623
Hunter-Lab	74.5658, -56.3059, 32.5383

# Details

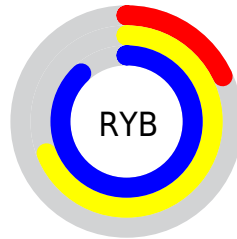
The Yxy color **55.6006, 0.2784, 0.4995** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **20.3233, 0.4129, 0.2203**, and the grayscale version is **34.5234, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.3750, 0.2844, 0.4403**, and **28.3531, 0.2834, 0.5404** is the 20% darker color. If you saturate the color by 10%, you get **54.9294, 0.2803, 0.5216**, and if you desaturate by 10%, it is **56.5967, 0.2783, 0.4757**.

# Distribution



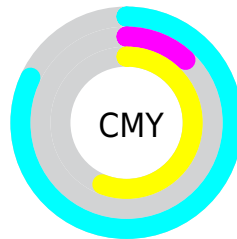
- Red (18%)
- Green (88%)
- Blue (44%)



- Red (18%)
- Yellow (69%)
- Blue (88%)



- Cyan (80%)
- Magenta (0%)
- Yellow (50%)
- Black (12%)




- Cyan (82%)
- Magenta (12%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.6006, 0.2784, 0.4995 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 55.6006, 0.2784, 0.4995 by changing the saturation by 10% instead.





 55.6006, 0.2784,  
0.4995


 55.6006, 0.2784,  
0.4995


408.1846, 0.2994,  
0.4097


 39.8828, 0.2719,  
0.5229


 98.4204, 0.2869,  
0.4660

 27.4472, 0.2629,  
0.5531


 126.2911, 0.2899,  
0.4537


 17.9093, 0.2498,  
0.5935


 158.9816, 0.2923,  
0.4434

 10.8849, 0.2296,  
0.6492

 196.8763, 0.2942,  
0.4346

 5.9895, 0.1977,  
0.7320

 240.3596, 0.2958,  
0.4270

 2.8387, 0.1246,  
0.8754

289.8158, 0.2972,

 1.0481, 0.0000,

0.4205

1.0000

345.6293, 0.2984,  
0.4147

■ 0.0000, 0.0000,  
0.0000

■ 55.6006, 0.2784,  
0.4995

■ 55.6006, 0.2784,  
0.4995

■ 54.9294, 0.2803,  
0.5216

■ 56.5967, 0.2783,  
0.4757

■ 54.5078, 0.2837,  
0.5414


■ 57.9508, 0.2800,  
0.4513


■ 54.5072, 0.2837,  
0.5414


■ 59.6990, 0.2833,  
0.4272


■ 61.8711, 0.2879,  
0.4041

■ 64.4940, 0.2935,  
0.3825

 67.5921, 0.2996,  
0.3627

 71.1883, 0.3061,  
0.3448

 75.3036, 0.3127,  
0.3290

 79.9582, 0.3193,  
0.3150

# Harmonies

## Analogous

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



55.6006, 0.3732, 0.5203



55.6006, 0.2784, 0.4995



55.6006, 0.1980, 0.3960

# Triad

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



55.6006, 0.2784, 0.4995



55.6006, 0.1696, 0.1828



55.6006, 0.5027, 0.3295

# Complementary

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



55.6006, 0.2784, 0.4995



20.3233, 0.4129, 0.2203

# 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.



55.6006, 0.4281, 0.2654



55.6006, 0.2784, 0.4995



55.6006, 0.2279, 0.1854

# Square

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



55.6006, 0.2784, 0.4995



55.6006, 0.1452, 0.2118



55.6006, 0.3206, 0.2144



55.6006, 0.5099, 0.3996



# Rectangle

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



55.6006, 0.2784, 0.4995



55.6006, 0.1637, 0.3168



55.6006, 0.3206, 0.2144



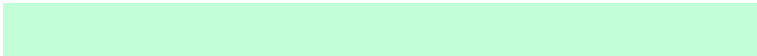
55.6006, 0.4845, 0.3073

# Sweetspot

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



55.6029, 0.2784, 0.4995



87.9681, 0.2970, 0.3707



61.4140, 0.3618, 0.5328



18.5178, 0.2948, 0.3779



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.



55.6029, 0.2784, 0.4995



72.5582, 0.2826, 0.5351



58.6279, 0.2384, 0.3625



15.4225, 0.3065, 0.3439



31.4298, 0.2829, 0.5385



2.1956, 0.2742, 0.5072



# Inverse Universe

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



20.3233, 0.4129, 0.2203



24.1095, 0.4413, 0.2220



18.3178, 0.5622, 0.3115



13.8433, 0.3195, 0.3145



10.3392, 0.4444, 0.2222

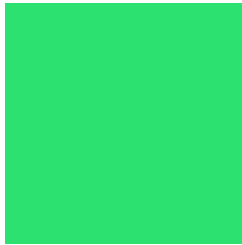


0.7339, 0.4203, 0.2089



# Previews

## White Background



This preview shows how the Yxy color 55.6006, 0.2784, 0.4995 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 55.6006, 0.2784, 0.4995 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 55.6006, 0.2784, 0.4995**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.6006, 0.2784, 0.4995.

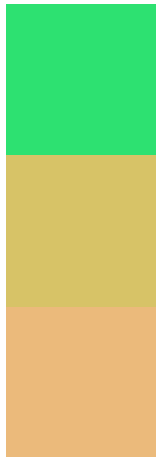


This preview shows how white text looks on a background with the Yxy color 55.6006, 0.2784, 0.4995.

# 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**

55.6006, 0.2784, 0.4995

**Protanopia**

54.4566, 0.3994, 0.4351

**Deuteranopia**

54.2100, 0.4077, 0.3989



## Tritanopia

55.1770, 0.2354, 0.3063

# Trichromacy



## Original Color

55.6006, 0.2784, 0.4995



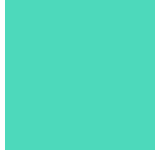
## Protanomaly

51.9765, 0.3387, 0.4650



## Deuteranomaly

50.7475, 0.3435, 0.4389



## Tritanomaly

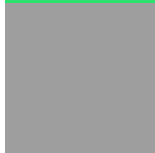
54.7913, 0.2502, 0.3720

# Monochromacy



## Original Color

55.6006, 0.2784, 0.4995



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

39.1908, 0.2901, 0.3928

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.6006, 0.2784, 0.4995 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(45, 225, 113)` looks like.

```
.text, #text, p{  
    color:rgb(45, 225, 113)  
}
```

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(45, 225, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 225, 113) }
```

## Border

The CSS property to change the border of an element to Yxy 55.6006, 0.2784, 0.4995 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(45, 225, 113) }
```

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

```
.border{ border-color:rgb(45, 225, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 225, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 225, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 225, 113);  
box-shadow:4px 4px 4px 4px rgb(45, 225,  
113) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.6006, 0.2784, 0.4995 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 225, 113) }
```

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

```
.background{ background-color: rgb(45, 225,  
113) }
```

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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