

# Converting Colors

$Y_{xy}(58.0921, 0.2711, 0.4922)$

Have a look what the booklet for  
Yxy(58.0921, 0.2711, 0.4922)  
contains.

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# Color

**Yxy(58.1003, 0.2711, 0.4922)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0FE67A
RGB	15, 230, 122
RGB Percent	6%, 90%, 48%
CMY	0.9429, 0.0980, 0.5216
CMYK	0.94, 0.00, 0.47, 0.10
HSL	150°, 88%, 48%
HSV	150°, 94%, 90%
XYZ	32.0012, 58.1003, 27.9406
YIQ	153.4030, -93.4720, -79.1680

# Conversions

## Conversions Part 2

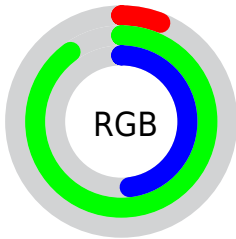
Format	Color
<a href="#">RYB</a>	<a href="#">15, 159, 230</a>
Decimal	<a href="#">1042042</a>
CIELab	<a href="#">80.79, -69.38, 39.79</a>
CIELCh	<a href="#">81, 79.980, 150.162</a>
Yxy	<a href="#">58.1003, 0.2711, 0.4922</a>
Android (android.graphics.Color)	<a href="#">4279232122 (0xFF0FE67A)</a>
YUV	<a href="#">153.4030, -15.4817, -121.3794</a>
Hunter-Lab	<a href="#">76.2236, -58.4509, 31.6231</a>

# Details

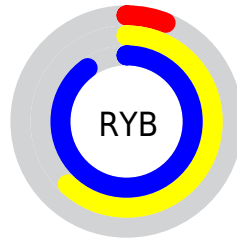
The Yxy color **58.1003, 0.2711, 0.4922** is a dark color, and the websafe version is hex **33FF99**. The color can be described as dark washed spring green. A complement of this color would be **18.5729, 0.4835, 0.2470**, and the grayscale version is **32.0804, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.0341, 0.2760, 0.4295**, and **30.3421, 0.2802, 0.5287** is the 20% darker color. If you saturate the color by 10%, you get **57.8307, 0.2732, 0.5035**, and if you desaturate by 10%, it is **58.7114, 0.2689, 0.4734**.

# Distribution



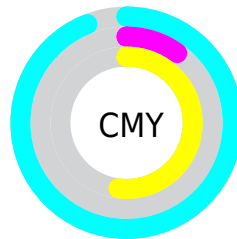
- Red (6%)
- Green (90%)
- Blue (48%)



- Red (6%)
- Yellow (62%)
- Blue (90%)



- Cyan (94%)
- Magenta (0%)
- Yellow (47%)
- Black (10%)




- Cyan (94%)
- Magenta (10%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.1003, 0.2711, 0.4922 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 58.1003, 0.2711, 0.4922 by changing the saturation by 10% instead.





 58.1003, 0.2711,  
0.4922


 58.1003, 0.2711,  
0.4922


417.5596, 0.2950,  
0.4068


 41.8893, 0.2642,  
0.5143

 102.0689, 0.2805,  
0.4605

 29.0146, 0.2548,  
0.5429


 130.5953, 0.2838,  
0.4488


 19.0919, 0.2415,  
0.5811


 163.9956, 0.2866,  
0.4389

 11.7367, 0.2217,  
0.6339

 202.6542, 0.2888,  
0.4306

 6.5646, 0.1903,  
0.7092

 246.9555, 0.2908,  
0.4234

 3.1914, 0.1341,  
0.8659

297.2839, 0.2924,

 1.2324, 0.0000,

0.4171

1.0000

354.0238, 0.2938,  
0.4116

■ 0.0880, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.1003, 0.2711,  
0.4922

■ 58.1003, 0.2711,  
0.4922

■ 57.8307, 0.2732,  
0.5035

■ 58.7114, 0.2689,  
0.4734

■ 59.6239, 0.2687,  
0.4538

■ 60.8844, 0.2706,  
0.4339

■ 62.5297, 0.2743,  
0.4143

■ 64.5916, 0.2795,  
0.3956

■ 67.0986, 0.2860,  
0.3779

■ 70.0765, 0.2934,  
0.3616

■ 73.5491, 0.3013,  
0.3468

■ 77.5385, 0.3096,  
0.3335

# Harmonies

## Analogous

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



58.1003, 0.3653, 0.5208



58.1003, 0.2711, 0.4922



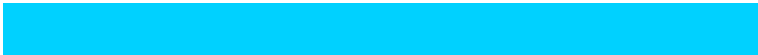
58.1003, 0.1934, 0.3853

# Triad

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



58.1003, 0.2711, 0.4922



58.1003, 0.1738, 0.1826



58.1003, 0.5049, 0.3353

# Complementary

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



58.1003, 0.2711, 0.4922



18.5729, 0.4835, 0.2470

# 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.



58.1003, 0.4356, 0.2708



58.1003, 0.2711, 0.4922



58.1003, 0.2348, 0.1875

# Square

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



58.1003, 0.2711, 0.4922



58.1003, 0.1468, 0.2086



58.1003, 0.3295, 0.2185



58.1003, 0.5065, 0.4055



# Rectangle

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



58.1003, 0.2711, 0.4922



58.1003, 0.1614, 0.3080



58.1003, 0.3295, 0.2185



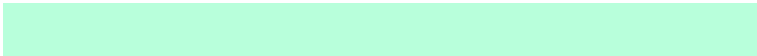
58.1003, 0.4887, 0.3130

# Sweetspot

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



58.1026, 0.2711, 0.4922



86.7865, 0.2900, 0.3688



61.0587, 0.3414, 0.5638



18.2358, 0.2868, 0.3759



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.



58.1026, 0.2711, 0.4922



73.0568, 0.2735, 0.5045



62.2115, 0.2266, 0.3335



16.2085, 0.3048, 0.3410



32.7617, 0.2724, 0.5007



2.4397, 0.2650, 0.4740



# Inverse Universe

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



18.5729, 0.4835, 0.2470



22.8140, 0.4996, 0.2526



17.1980, 0.6296, 0.3290



14.4879, 0.3214, 0.3173



10.2536, 0.4949, 0.2500



0.7765, 0.4626, 0.2322



# Previews

## White Background



This preview shows how the Yxy color 58.1003, 0.2711, 0.4922 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 58.1003, 0.2711, 0.4922 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

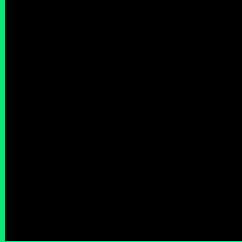
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 58.1003, 0.2711, 0.4922**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.1003, 0.2711, 0.4922.

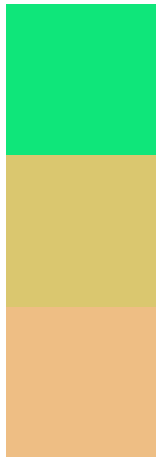


This preview shows how white text looks on a background with the Yxy color 58.1003, 0.2711, 0.4922.

# 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

58.1003, 0.2711, 0.4922

### Protanopia

56.9000, 0.3944, 0.4298

### Deuteranopia

56.6700, 0.4010, 0.3929



## Tritanopia

57.6986, 0.2320, 0.3054

# Trichromacy



## Original Color

58.1003, 0.2711, 0.4922



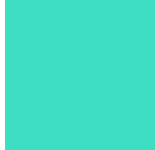
## Protanomaly

53.2603, 0.3261, 0.4615



## Deuteranomaly

52.3893, 0.3290, 0.4349



## Tritanomaly

57.1297, 0.2438, 0.3686

# Monochromacy



## Original Color

58.1003, 0.2711, 0.4922



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

37.8843, 0.2802, 0.3931

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.1003, 0.2711, 0.4922 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(15, 230, 122)` looks like.

```
.text, #text, p{  
    color:rgb(15, 230, 122)  
}
```

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(15, 230, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(15, 230, 122) }
```

## Border

The CSS property to change the border of an element to Yxy 58.1003, 0.2711, 0.4922 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(15, 230, 122) }
```

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

```
.border{ border-color:rgb(15, 230, 122) }
```

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

Here you see how a box with a 4 pixel rgb(15, 230, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(15, 230, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(15, 230, 122);  
box-shadow:4px 4px 4px 4px rgb(15, 230,  
122) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.1003, 0.2711, 0.4922 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(15, 230, 122) }
```

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

```
.background{ background-color: rgb(15, 230,  
122) }
```

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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