

# Converting Colors

$Yxy(66.8302, 0.3071, 0.5287)$

Have a look what the booklet for  
Yxy(66.8302, 0.3071, 0.5287)  
contains.

<b>Yxy(66.9689, 0.3071, 0.5288)</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(66.9689, 0.3071, 0.5288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64F25B
RGB	100, 242, 91
RGB Percent	39%, 95%, 36%
CMY	0.6081, 0.0509, 0.6430
CMYK	0.59, 0.00, 0.62, 0.05
HSL	116°, 85%, 65%
HSV	116°, 62%, 95%
XYZ	38.8921, 66.9689, 20.7821
YIQ	182.3280, -36.1610, -77.0650

# Conversions

## Conversions Part 2

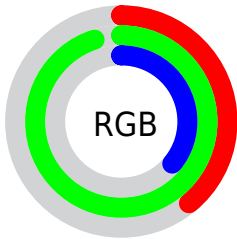
Format	Color
<a href="#">RYB</a>	<a href="#">91, 242, 233</a>
Decimal	<a href="#">6615643</a>
CIELab	<a href="#">85.49, -66.25, 59.83</a>
CIELCh	<a href="#">85, 89.263, 137.915</a>
Yxy	<a href="#">66.9689, 0.3071, 0.5288</a>
Android (android.graphics.Color)	<a href="#">4284805723</a> ( <a href="#">0xFF64F25B</a> )
YUV	<a href="#">182.3280, -45.0247, -72.2017</a>
Hunter-Lab	<a href="#">81.8345, -58.3777, 42.2273</a>

# Details

The Yxy color **66.9689, 0.3071, 0.5288** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted chartreuse. A complement of this color would be **31.2429, 0.3108, 0.1818**, and the grayscale version is **47.2272, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3819, 0.3160, 0.4588**, and **34.8409, 0.2963, 0.5837** is the 20% darker color. If you saturate the color by 10%, you get **65.4978, 0.3053, 0.5580**, and if you desaturate by 10%, it is **68.9431, 0.3087, 0.4950**.

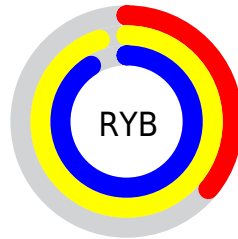
# Distribution



Red (39%)

Green (95%)

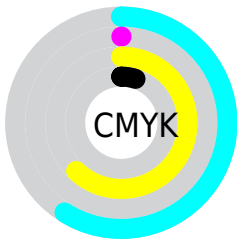
Blue (36%)



Red (36%)

Yellow (95%)

Blue (91%)

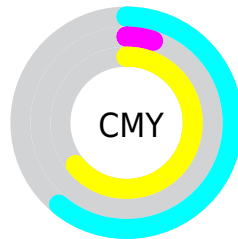


Cyan (59%)

Magenta (0%)

Yellow (62%)

Black (5%)



Cyan (61%)

Magenta (5%)


Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.9689, 0.3071, 0.5288 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 66.9689, 0.3071, 0.5288 by changing the saturation by 10% instead.




 66.9689, 0.3071,  
0.5288

 66.9689, 0.3071,  
0.5288


449.8341, 0.3164,  
0.4279


 49.0594, 0.3028,  
0.5532

 114.8758, 0.3120,  
0.4925


 34.6666, 0.2963,  
0.5835


 145.6420, 0.3134,  
0.4787

 23.4061, 0.2859,  
0.6218


 181.4626, 0.3144,  
0.4670

 14.8937, 0.2690,  
0.6706

 222.7218, 0.3151,  
0.4569

 8.7448, 0.2450,  
0.7468

269.8042, 0.3156,  
0.4482

 4.5751, 0.1917,  
0.8083

323.0941, 0.3160,

 2.0002, 0.0062,

0.4406

0.9938

382.9759, 0.3162,  
0.4338

0.6076, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

66.9689, 0.3071,  
0.5288

66.9689, 0.3071,  
0.5288

65.4978, 0.3053,  
0.5580

68.9431, 0.3087,  
0.4950

64.4767, 0.3035,  
0.5802

71.4510, 0.3100,  
0.4595


63.8559, 0.3018,  
0.5939


74.5310, 0.3111,  
0.4244

63.6054, 0.3009,  
0.5993

78.2151, 0.3118,  
0.3914

 82.5334, 0.3123,  
0.3614

 87.5137, 0.3127,  
0.3348

 91.9899, 0.3133,  
0.3166

# Harmonies

## Analogous

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



66.9689, 0.4053, 0.5179



66.9689, 0.3071, 0.5288



66.9689, 0.2154, 0.4418

# Triad

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



66.9689, 0.3071, 0.5288



66.9689, 0.1516, 0.1818



66.9689, 0.4948, 0.3057

# Complementary

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



66.9689, 0.3071, 0.5288



31.2429, 0.3108, 0.1818

# 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.



66.9689, 0.3985, 0.2429



66.9689, 0.3071, 0.5288



66.9689, 0.1998, 0.1751

# Square

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



66.9689, 0.3071, 0.5288



66.9689, 0.1370, 0.2240



66.9689, 0.2855, 0.1968



66.9689, 0.5254, 0.3763



# Rectangle

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



66.9689, 0.3071, 0.5288



66.9689, 0.1714, 0.3549



66.9689, 0.2855, 0.1968



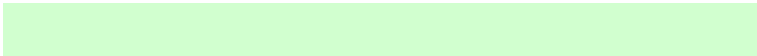
66.9689, 0.4682, 0.2836

# Sweetspot

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



66.9717, 0.3071, 0.5288



89.6175, 0.3120, 0.3811



77.3171, 0.4059, 0.4659



18.8972, 0.3118, 0.3900



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.



66.9717, 0.3071, 0.5288



73.3841, 0.3048, 0.5651



68.1520, 0.2755, 0.4459



17.7008, 0.3125, 0.3534



34.1850, 0.3013, 0.5990



2.8594, 0.3046, 0.5964



# Inverse Universe

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



31.2429, 0.3108, 0.1818



30.0432, 0.3094, 0.1628



29.5260, 0.3945, 0.2414



15.9812, 0.3129, 0.3057



12.3030, 0.3062, 0.1460

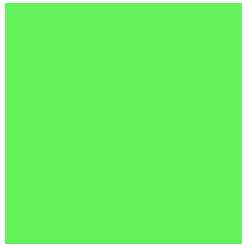


1.0378, 0.3083, 0.1472



# Previews

## White Background



This preview shows how the Yxy color 66.9689, 0.3071, 0.5288 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 66.9689, 0.3071, 0.5288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

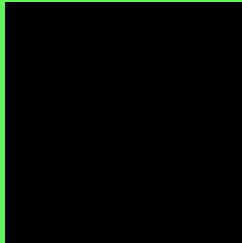
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

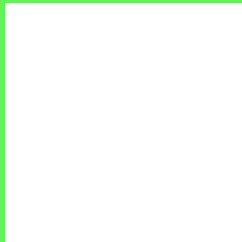
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 66.9689, 0.3071, 0.5288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.9689, 0.3071, 0.5288.

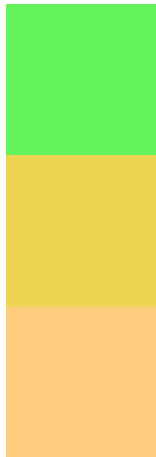


This preview shows how white text looks on a background with the Yxy color 66.9689, 0.3071, 0.5288.

# 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

66.9689, 0.3071, 0.5288

### Protanopia

65.5290, 0.4181, 0.4593

### Deuteranopia

65.4525, 0.4136, 0.4083



## Tritanopia

66.6816, 0.2485, 0.3072

# Trichromacy



## Original Color

66.9689, 0.3071, 0.5288



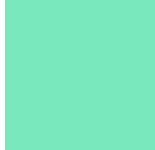
## Protanomaly

63.9960, 0.3707, 0.4889



## Deuteranomaly

62.9601, 0.3684, 0.4517



## Tritanomaly

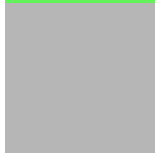
65.5249, 0.2711, 0.3855

# Monochromacy



## Original Color

66.9689, 0.3071, 0.5288



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

52.0311, 0.3113, 0.4053

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.9689, 0.3071, 0.5288 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(100, 242, 91)` looks like.

```
.text, #text, p{  
    color:rgb(100, 242, 91)  
}
```

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(100, 242, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 242, 91) }
```

## Border

The CSS property to change the border of an element to Yxy 66.9689, 0.3071, 0.5288 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(100, 242, 91) }
```

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

```
.border{ border-color:rgb(100, 242, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 242, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 242, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 242, 91);  
box-shadow:4px 4px 4px 4px rgb(100, 242,  
91) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.9689, 0.3071, 0.5288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 242, 91) }
```

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

```
.background{ background-color: rgb(100,  
242, 91) }
```

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