

# Converting Colors

$Y_{xy}(65.2098, 0.2994, 0.5978)$

Have a look what the booklet for  
Yxy(65.2098, 0.2994, 0.5978)  
contains.

<b>Yxy(65.3314, 0.2994, 0.5978)</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(65.3314, 0.2994, 0.5978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F50C
RGB	0, 245, 12
RGB Percent	0%, 96%, 5%
CMY	0.9994, 0.0392, 0.9527
CMYK	1.00, 0.00, 0.95, 0.04
HSL	123°, 100%, 48%
HSV	123°, 100%, 96%
XYZ	32.7203, 65.3314, 11.2346
YIQ	145.1830, -71.2270, -124.4030

# Conversions

## Conversions Part 2

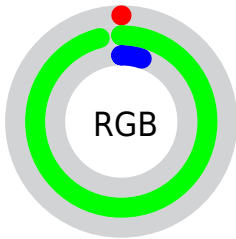
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 234, 245
Decimal	62732
CIELab	84.65, -83.43, 79.74
CIELCh	85, 115.404, 136.296
Yxy	65.3314, 0.2994, 0.5978
Android (android.graphics.Color)	4278252812 (0xFF00F50C)
YUV	145.1830, -65.6592, -127.3255
Hunter-Lab	80.8278, -69.1892, 48.3385

# Details

The Yxy color **65.3314, 0.2994, 0.5978** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **25.3042, 0.3337, 0.1612**, and the grayscale version is **28.7112, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.0922, 0.3134, 0.5290**, and **35.5406, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **65.3328, 0.2994, 0.5978**, and if you desaturate by 10%, it is **65.6323, 0.2991, 0.5885**.

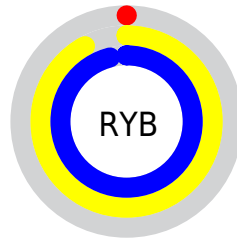
# Distribution



Red (0%)

Green (96%)

Blue (5%)



Red (0%)

Yellow (92%)

Blue (96%)

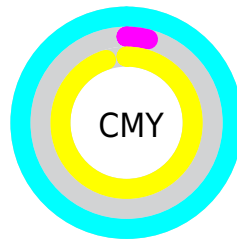


Cyan (100%)

Magenta (0%)

Yellow (95%)

Black (4%)



Cyan (100%)

Magenta (4%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.3314, 0.2994, 0.5978 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 65.3314, 0.2994, 0.5978 by changing the saturation by 10% instead.




 65.3314, 0.2994,  
0.5978

 65.3314, 0.2994,  
0.5978


443.9819, 0.3188,  
0.4624


 47.7299, 0.2907,  
0.6288


 112.5262, 0.3094,  
0.5501

 33.6130, 0.2778,  
0.6659


 142.8882, 0.3123,  
0.5316

 22.5965, 0.2582,  
0.7099


 178.2725, 0.3144,  
0.5158

 14.2958, 0.2308,  
0.7692

 219.0634, 0.3159,  
0.5021

 8.3267, 0.1832,  
0.8168

 265.6455, 0.3170,  
0.4902

 4.3047, 0.1147,  
0.8853

 318.4030, 0.3178,

 1.8454, 0.0000,

0.4798

1.0000

377.7203, 0.3184,  
0.4706

■ 0.5153, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 65.3314, 0.2994,  
0.5978

■ 65.3314, 0.2994,  
0.5978

■ 65.3328, 0.2994,  
0.5978

■ 65.6323, 0.2991,  
0.5885


■ 66.2756, 0.2991,  
0.5711


■ 67.3575, 0.2997,  
0.5460


■ 68.9375, 0.3009,  
0.5151

 71.0662, 0.3026,  
0.4809

 73.7876, 0.3045,  
0.4461

 77.1415, 0.3066,  
0.4125

 81.1642, 0.3088,  
0.3814

 85.8891, 0.3108,  
0.3534

# Harmonies

## Analogous

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



65.3314, 0.4173, 0.5541



65.3314, 0.2994, 0.5978



65.3314, 0.1901, 0.4905

# Triad

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



65.3314, 0.2994, 0.5978



65.3314, 0.1178, 0.1506



65.3314, 0.5424, 0.2885

# Complementary

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



65.3314, 0.2994, 0.5978



25.3042, 0.3337, 0.1612

# 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.



65.3314, 0.4133, 0.2182



65.3314, 0.2994, 0.5978



65.3314, 0.1693, 0.1435

# Square

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



65.3314, 0.2994, 0.5978



65.3314, 0.1023, 0.1979



65.3314, 0.2687, 0.1668



65.3314, 0.5777, 0.3664



# Rectangle

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



65.3314, 0.2994, 0.5978



65.3314, 0.1389, 0.3672



65.3314, 0.2687, 0.1668



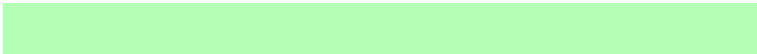
65.3314, 0.5071, 0.2639

# Sweetspot

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



65.3341, 0.2994, 0.5978



84.4309, 0.3066, 0.4129



83.2839, 0.4134, 0.5099



17.7217, 0.3057, 0.4268



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.



65.3341, 0.2994, 0.5978



71.5476, 0.2994, 0.5979



66.9390, 0.2700, 0.4921



18.4851, 0.3109, 0.3523



35.2009, 0.2992, 0.5970



3.0983, 0.2970, 0.5893



# Inverse Universe

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



25.3042, 0.3337, 0.1612



27.7062, 0.3337, 0.1612



20.6406, 0.5139, 0.2605



16.7535, 0.3145, 0.3068



13.6358, 0.3335, 0.1611

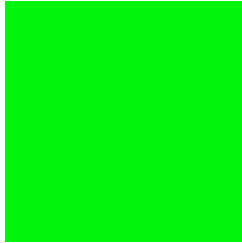


1.2027, 0.3318, 0.1601



# Previews

## White Background



This preview shows how the Yxy color 65.3314, 0.2994, 0.5978 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

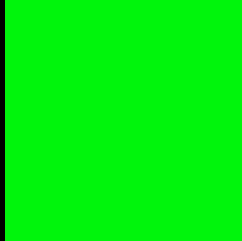
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.3314, 0.2994, 0.5978 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

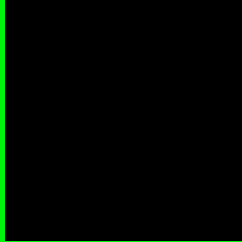
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

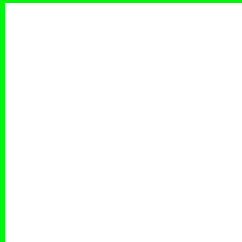
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 65.3314, 0.2994, 0.5978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.3314, 0.2994, 0.5978.



This preview shows how white text looks on a background with the Yxy color 65.3314, 0.2994, 0.5978.

# 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

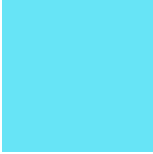
65.3314, 0.2994, 0.5978

### Protanopia

63.9261, 0.4404, 0.4885

### Deuteranopia

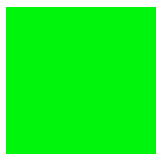
63.5279, 0.4307, 0.4256



## **Tritanopia**

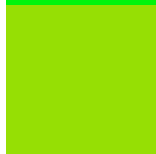
65.0242, 0.2356, 0.3066

# Trichromacy



## Original Color

65.3314, 0.2994, 0.5978



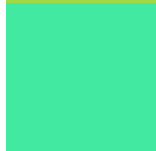
## Protanomaly

59.2681, 0.3618, 0.5500



## Deuteranomaly

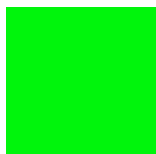
57.2228, 0.3609, 0.5096



## Tritanomaly

62.5771, 0.2637, 0.4332

# Monochromacy



## Original Color

65.3314, 0.2994, 0.5978



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

36.1861, 0.3025, 0.4739

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.3314, 0.2994, 0.5978 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(0, 245, 12)` looks like.

```
.text, #text, p{  
    color:rgb(0, 245, 12)  
}
```

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(0, 245, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 245, 12) }
```

## Border

The CSS property to change the border of an element to Yxy 65.3314, 0.2994, 0.5978 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(0, 245, 12) }
```

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

```
.border{ border-color:rgb(0, 245, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 245, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 245, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 245, 12);  
box-shadow:4px 4px 4px 4px rgb(0, 245, 12)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 65.3314, 0.2994, 0.5978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 245, 12) }
```

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

```
.background{ background-color: rgb(0, 245,  
12) }
```

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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