

# Converting Colors

$Y_{xy}(90.8101, 0.4079, 0.5056)$

Have a look what the booklet for  
Yxy(90.8101, 0.4079, 0.5056)  
contains.

<b>Yxy(90.8930, 0.4083, 0.5055)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(90.8930, 0.4083, 0.5055)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4FF26
RGB	244, 255, 38
RGB Percent	96%, 100%, 15%
CMY	0.0432, 0.0000, 0.8513
CMYK	0.04, 0.00, 0.85, 0.00
HSL	63°, 100%, 57%
HSV	63°, 85%, 100%
XYZ	73.4157, 90.8930, 15.4995
YIQ	226.9730, 63.1010, -69.8190

# Conversions

## Conversions Part 2

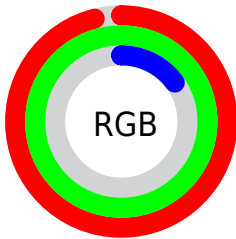
Format	Color
R <sub>Y</sub> B	38, 255, 49
Decimal	16056102
CIE Lab	96.37, -25.57, 89.31
CIE LCh	96, 92.897, 105.980
Yxy	90.8930, 0.4083, 0.5055
Android (android.graphics.Color)	4294246182 (0xFFFF4FF26)
YUV	226.9730, -93.1637, 14.9327
Hunter-Lab	95.3378, -29.3858, 57.0975

# Details

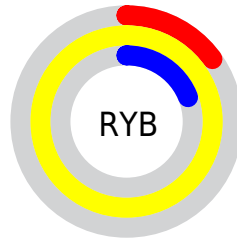
The Yxy color **90.8930, 0.4083, 0.5055** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **9.2511, 0.1605, 0.0743**, and the grayscale version is **77.4426, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.8627, 0.3952, 0.4654**, and **50.9141, 0.4052, 0.5164** is the 20% darker color. If you saturate the color by 10%, you get **90.5493, 0.4101, 0.5109**, and if you desaturate by 10%, it is **91.3477, 0.4039, 0.4958**.

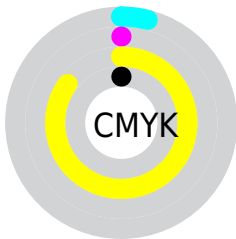
# Distribution



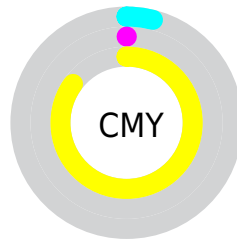
- Red (96%)
- Green (100%)
- Blue (15%)



- Red (15%)
- Yellow (100%)
- Blue (19%)



- Cyan (4%)
- Magenta (0%)
- Yellow (85%)
- Black (0%)




- Cyan (4%)
- Magenta (0%)
- Yellow (85%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.8930, 0.4083, 0.5055 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 90.8930, 0.4083, 0.5055 by changing the saturation by 10% instead.



 90.8930, 0.4083,  
0.5055


 90.8930, 0.4083,  
0.5055


530.9315, 0.3751,  
0.4314

 68.7215, 0.4126,  
0.5193


 148.5782, 0.3994,  
0.4822


 50.4850, 0.4162,  
0.5345

 184.8607, 0.3952,  
0.4724


 35.7989, 0.4184,  
0.5509


 226.6157, 0.3912,  
0.4637

 24.2789, 0.4183,  
0.5688

 274.2275, 0.3875,  
0.4558

 15.5406, 0.4132,  
0.5868

 328.0806, 0.3840,  
0.4488

 9.1997, 0.3985,  
0.6015


388.5594, 0.3808,


 4.8717, 0.3767,


0.4424


0.6233

456.0482, 0.3778,  
0.4367

 2.1722, 0.3411,  
0.6589


 0.7048, 0.0607,  
0.9393

 90.8930, 0.4083,  
0.5055


 90.8930, 0.4083,  
0.5055


 90.5493, 0.4101,  
0.5109


 91.3477, 0.4039,  
0.4958

 90.4103, 0.4103,  
0.5124

 91.9377, 0.3969,  
0.4816

 92.6775, 0.3874,  
0.4634

 93.5809, 0.3758,  
0.4418

 94.6603, 0.3627,  
0.4178

 95.9265, 0.3486,  
0.3925

 97.3898, 0.3342,  
0.3668

 99.0596, 0.3199,  
0.3416

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



90.8930, 0.4829, 0.4433



90.8930, 0.4083, 0.5055



90.8930, 0.3152, 0.5177

# Triad

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



90.8930, 0.4083, 0.5055



90.8930, 0.1450, 0.2344



90.8930, 0.3868, 0.2439

# Complementary

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



90.8930, 0.4083, 0.5055



9.2511, 0.1605, 0.0743

# 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.



90.8930, 0.2812, 0.2008



90.8930, 0.4083, 0.5055



90.8930, 0.1570, 0.1905

# Square

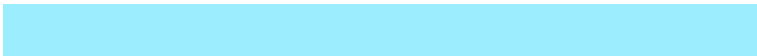
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



90.8930, 0.4083, 0.5055



90.8930, 0.1666, 0.3231



90.8930, 0.2015, 0.1817



90.8930, 0.4798, 0.3038



# Rectangle

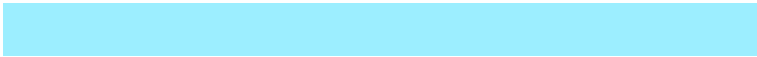
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90.8930, 0.4083, 0.5055



90.8930, 0.2539, 0.4760



90.8930, 0.2015, 0.1817



90.8930, 0.3505, 0.2272

# Sweetspot

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



90.8916, 0.4083, 0.5055



95.8092, 0.3499, 0.3947



23.5762, 0.6064, 0.3350



20.4098, 0.3548, 0.4036



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.



90.8916, 0.4083, 0.5055



90.4103, 0.4103, 0.5124



76.8601, 0.3365, 0.5599



21.0411, 0.3261, 0.3525



47.2617, 0.4105, 0.5123



4.6155, 0.4116, 0.5114



# Inverse Universe

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



9.2511, 0.1605, 0.0743



7.3050, 0.1511, 0.0606



15.7995, 0.2264, 0.1094



17.4217, 0.2986, 0.3045



3.8352, 0.1515, 0.0608

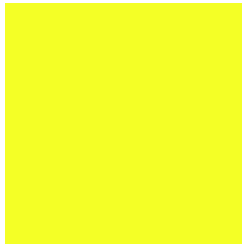


0.3882, 0.1550, 0.0628



# Previews

## White Background



This preview shows how the Yxy color 90.8930, 0.4083, 0.5055 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

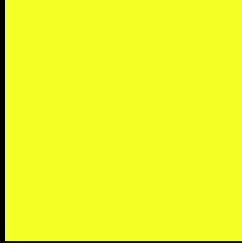
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.8930, 0.4083, 0.5055 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 90.8930, 0.4083, 0.5055**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.8930, 0.4083, 0.5055.

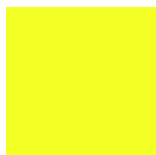


This preview shows how white text looks on a background with the Yxy color 90.8930, 0.4083, 0.5055.

# 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



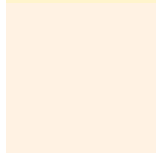
### Original Color

90.8930, 0.4083, 0.5055



### Protanopia

90.3210, 0.3450, 0.3688



### Deuteranopia

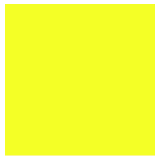
90.3103, 0.3306, 0.3438



## Tritanopia

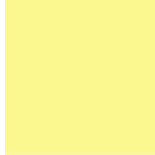
90.5452, 0.3158, 0.3184

# Trichromacy



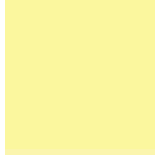
## Original Color

90.8930, 0.4083, 0.5055



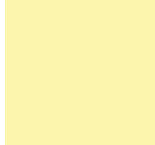
## Protanomaly

89.6576, 0.3776, 0.4319



## Deuteranomaly

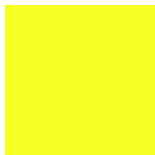
89.4994, 0.3699, 0.4179



## Tritanomaly

88.8700, 0.3608, 0.4005

# Monochromacy



## Original Color

90.8930, 0.4083, 0.5055



## Achromatopsia

76.8151, 0.3127, 0.3290



## Achromatomaly

80.3606, 0.3600, 0.4130

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.8930, 0.4083, 0.5055 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(244, 255, 38)` looks like.

```
.text, #text, p{  
    color:rgb(244, 255, 38)  
}
```

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(244, 255, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 255, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 90.8930, 0.4083, 0.5055 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(244, 255, 38) }
```

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

```
.border{ border-color:rgb(244, 255, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 255, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 255, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 255, 38);  
box-shadow:4px 4px 4px 4px rgb(244, 255,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.8930, 0.4083, 0.5055 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 255, 38) }
```

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

```
.background{ background-color: rgb(244,  
255, 38) }
```

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