

# Converting Colors

$Y_{xy}(73.5010, 0.4510, 0.4329)$

Have a look what the booklet for  
Yxy(73.5010, 0.4510, 0.4329)  
contains.

<b>Yxy(68.0914, 0.4307, 0.4434)</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(68.0914, 0.4307, 0.4434)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD25A
RGB	255, 210, 90
RGB Percent	100%, 82%, 35%
CMY	0.0000, 0.1765, 0.6470
CMYK	0.00, 0.18, 0.65, 0.00
HSL	44°, 100%, 68%
HSV	44°, 65%, 100%
XYZ	66.1411, 68.0914, 19.3340
YIQ	209.7750, 65.3400, -27.7800

# Conversions

## Conversions Part 2

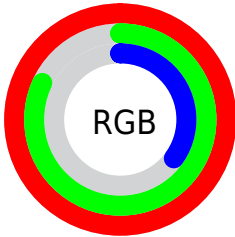
Format	Color
<a href="#">RYB</a>	<a href="#">152, 255, 90</a>
Decimal	<a href="#">16765530</a>
CIELab	<a href="#">86.05, 3.20, 63.54</a>
CIELCh	<a href="#">86, 63.619, 87.118</a>
Yxy	<a href="#">68.0914, 0.4307, 0.4434</a>
Android (android.graphics.Color)	<a href="#">4294955610</a> (0xFFFFD25A)
YUV	<a href="#">209.7750, -59.0491, 39.6623</a>
Hunter-Lab	<a href="#">82.5175, -1.3307, 43.8705</a>

# Details

The Yxy color **68.0914, 0.4307, 0.4434** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted yellow. A complement of this color would be **26.7306, 0.1986, 0.1716**, and the grayscale version is **64.6547, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.8243, 0.3772, 0.4356**, and **35.4888, 0.4525, 0.4632** is the 20% darker color. If you saturate the color by 10%, you get **64.3660, 0.4478, 0.4536**, and if you desaturate by 10%, it is **72.1102, 0.4119, 0.4294**.

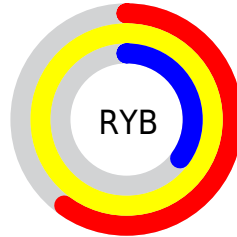
# Distribution



Red (100%)

Green (82%)

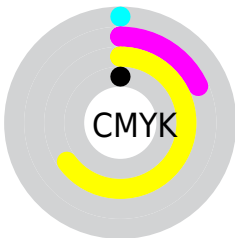
Blue (35%)



Red (60%)

Yellow (100%)

Blue (35%)

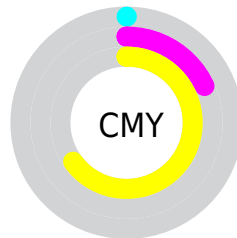


Cyan (0%)

Magenta (18%)

Yellow (65%)

Black (0%)



Cyan (0%)

Magenta (18%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.0914, 0.4307, 0.4434 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 68.0914, 0.4307, 0.4434 by changing the saturation by 10% instead.




 68.0914, 0.4307,  
0.4434


 68.0914, 0.4307,  
0.4434

453.8198, 0.3791,  
0.3943

 49.9721, 0.4409,  
0.4528


 116.4829, 0.4139,  
0.4277

 35.3912, 0.4524,  
0.4633


 147.5239, 0.4071,  
0.4211

 23.9644, 0.4652,  
0.4746


 183.6408, 0.4010,  
0.4153

 15.3072, 0.4786,  
0.4859

 225.2182, 0.3956,  
0.4102

 9.0353, 0.4979,  
0.5021

272.6404, 0.3908,  
0.4056

 4.7642, 0.5004,  
0.4996

326.2918, 0.3865,

 2.1096, 0.5045,

0.4014

386.5568, 0.3826,  
0.3977

0.4955

0.6700, 0.5162,  
0.4838

0.0000, 0.0000,  
0.0000

68.0914, 0.4307,  
0.4434

68.0914, 0.4307,  
0.4434

64.3660, 0.4478,  
0.4536

72.1102, 0.4119,  
0.4294

60.9233, 0.4623,  
0.4590

76.4451, 0.3923,  
0.4126

57.7396, 0.4737,  
0.4594

81.1078, 0.3728,  
0.3942

56.1408, 0.4788,  
0.4581

86.1110, 0.3540,  
0.3750

 91.4665, 0.3363,  
0.3559

 97.1854, 0.3199,  
0.3374

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.



68.0914, 0.4658, 0.3906



68.0914, 0.4307, 0.4434



68.0914, 0.3664, 0.4730

# Triad

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



68.0914, 0.4307, 0.4434



68.0914, 0.1877, 0.2986



68.0914, 0.3188, 0.2378

# Complementary

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



68.0914, 0.4307, 0.4434



26.7306, 0.1986, 0.1716

# 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.



68.0914, 0.2467, 0.2143



68.0914, 0.4307, 0.4434



68.0914, 0.1789, 0.2406

# Square

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



68.0914, 0.4307, 0.4434



68.0914, 0.2267, 0.3808



68.0914, 0.1989, 0.2139



68.0914, 0.3986, 0.2798



# Rectangle

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



68.0914, 0.4307, 0.4434



68.0914, 0.3165, 0.4660



68.0914, 0.1989, 0.2139



68.0914, 0.2927, 0.2277

# Sweetspot

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



68.0890, 0.4307, 0.4434



89.1181, 0.3437, 0.3641



30.3756, 0.4633, 0.2849



18.7487, 0.3488, 0.3696



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.



68.0890, 0.4307, 0.4434



63.1988, 0.4529, 0.4559



87.3582, 0.3774, 0.4928



20.2033, 0.3276, 0.3462



29.5964, 0.4776, 0.4590



3.0638, 0.4694, 0.4655



# Inverse Universe

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



26.7306, 0.1986, 0.1716



19.2933, 0.1787, 0.1363



18.9541, 0.2075, 0.1299



18.1840, 0.2979, 0.3112



6.2440, 0.1592, 0.0932



0.7805, 0.1652, 0.1146



# Previews

## White Background



This preview shows how the Yxy color 68.0914, 0.4307, 0.4434 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 68.0914, 0.4307, 0.4434 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 68.0914, 0.4307, 0.4434**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.0914, 0.4307, 0.4434.



This preview shows how white text looks on a background with the Yxy color 68.0914, 0.4307, 0.4434.

# 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

68.0914, 0.4307, 0.4434

### Protanopia

68.4097, 0.4137, 0.4534

### Deuteranopia

68.2067, 0.4018, 0.4008



## Tritanopia

67.8374, 0.3463, 0.3168

# Trichromacy



## Original Color

68.0914, 0.4307, 0.4434

## Protanomaly

68.2609, 0.4195, 0.4503

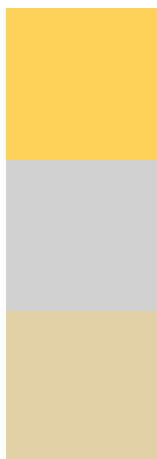
## Deuteranomaly

68.2414, 0.4130, 0.4175

## Tritanomaly

67.2729, 0.3809, 0.3666

# Monochromacy



## Original Color

68.0914, 0.4307, 0.4434

## Achromatopsia

64.4480, 0.3127, 0.3290

## Achromatomaly

65.0151, 0.3570, 0.3786

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.0914, 0.4307, 0.4434 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(255, 210, 90)` looks like.

```
.text, #text, p{  
    color:rgb(255, 210, 90)  
}
```

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(255, 210, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 210, 90) }
```

## Border

The CSS property to change the border of an element to Yxy 68.0914, 0.4307, 0.4434 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(255, 210, 90) }
```

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

```
.border{ border-color:rgb(255, 210, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 210, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 210, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 210, 90);  
box-shadow:4px 4px 4px 4px rgb(255, 210,  
90) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.0914, 0.4307, 0.4434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 210, 90) }
```

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

```
.background{ background-color: rgb(255,  
210, 90) }
```

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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