

# Converting Colors

$Y_{xy}(102.3772, 0.3838, 0.3656)$

Have a look what the booklet for  
Yxy(102.3772, 0.3838, 0.3656)  
contains.

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# Color

**Yxy(90.2256, 0.3462, 0.3708)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF4CA
RGB	255, 244, 202
RGB Percent	100%, 96%, 79%
CMY	0.0002, 0.0431, 0.2078
CMYK	0.00, 0.04, 0.21, 0.00
HSL	48°, 100%, 90%
HSV	48°, 21%, 100%
XYZ	84.2398, 90.2256, 68.8615
YIQ	242.5010, 20.0380, -10.7300

# Conversions

## Conversions Part 2

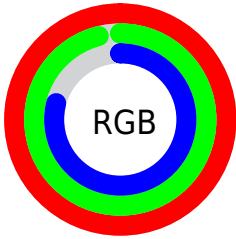
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	216, 255, 202
Decimal	16774346
CIE <sub>Lab</sub>	96.09, -2.87, 21.59
CIE <sub>LCh</sub>	96, 21.775, 97.562
Yxy	90.2256, 0.3462, 0.3708
Android (android.graphics.Color)	4294964426 (0xFFFFF4CA)
YUV	242.5010, -19.9670, 10.9616
Hunter-Lab	94.9872, -7.9240, 23.5084

# Details

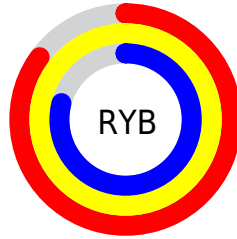
The Yxy color **90.2256, 0.3462, 0.3708** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **67.3390, 0.2786, 0.2834**, and the grayscale version is **89.3590, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **50.1103, 0.3533, 0.3797** is the 20% darker color. If you saturate the color by 10%, you get **85.9957, 0.3638, 0.3915**, and if you desaturate by 10%, it is **94.7536, 0.3295, 0.3503**.

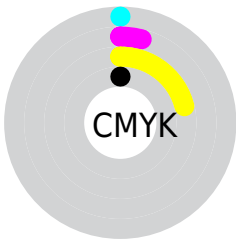
# Distribution



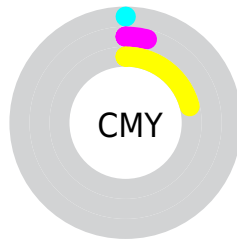
- Red (100%)
- Green (96%)
- Blue (79%)



- Red (85%)
- Yellow (100%)
- Blue (79%)



- Cyan (0%)
- Magenta (4%)
- Yellow (21%)
- Black (0%)



- Cyan (0%)
- Magenta (4%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.2256, 0.3462, 0.3708 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 90.2256, 0.3462, 0.3708 by changing the saturation by 10% instead.



90.2256, 0.3462,  
0.3708

90.2256, 0.3462,  
0.3708

528.7644, 0.3314,  
0.3521

68.1678, 0.3494,  
0.3749

147.6517, 0.3412,  
0.3645

50.0342, 0.3533,  
0.3799

183.7888, 0.3392,  
0.3619

35.4406, 0.3581,  
0.3861

225.3878, 0.3375,  
0.3598

24.0025, 0.3641,  
0.3939

272.8330, 0.3360,  
0.3579

15.3355, 0.3719,  
0.4042

326.5089, 0.3346,  
0.3562

9.0552, 0.3824,  
0.4181

386.7998, 0.3334,

4.7772, 0.3968,

0.3547

0.4379

454.0902, 0.3324,  
0.3533

■ 2.1171, 0.4259,  
0.4771

■ 0.6742, 0.4585,  
0.5415

■ 90.2256, 0.3462,  
0.3708

■ 90.2256, 0.3462,  
0.3708

■ 85.9957, 0.3638,  
0.3915

■ 94.7536, 0.3295,  
0.3503

■ 82.0414, 0.3819,  
0.4118

99.5774, 0.3139,  
0.3305

■ 78.3552, 0.3998,  
0.4306

99.9911, 0.3127,  
0.3290

■ 74.9247, 0.4169,  
0.4469

■ 71.7361, 0.4323,  
0.4596

■ 68.7738, 0.4453,  
0.4680

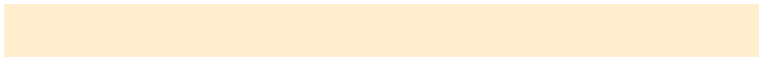
■ 66.0189, 0.4553,  
0.4716

■ 63.6319, 0.4622,  
0.4712

# Harmonies

## Analogous

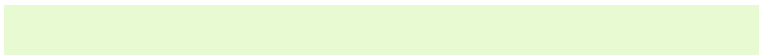
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.2256, 0.3594, 0.3593



90.2256, 0.3462, 0.3708



90.2256, 0.3242, 0.3708

# Triad

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



90.2256, 0.3462, 0.3708



90.2256, 0.2679, 0.3144



90.2256, 0.3246, 0.3021

# Complementary

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



90.2256, 0.3462, 0.3708



67.3390, 0.2786, 0.2834

# 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.



90.2256, 0.2998, 0.2908



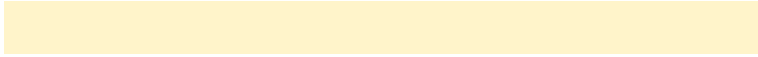
90.2256, 0.3462, 0.3708



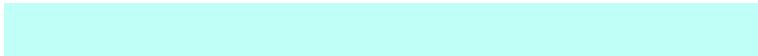
90.2256, 0.2679, 0.2969

# Square

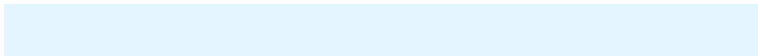
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



90.2256, 0.3462, 0.3708



90.2256, 0.2793, 0.3371



90.2256, 0.2793, 0.2887



90.2256, 0.3468, 0.3200

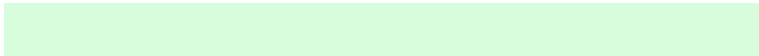


# Rectangle

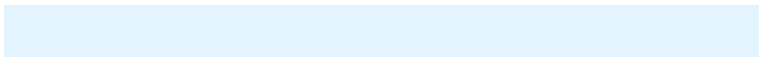
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



90.2256, 0.3462, 0.3708



90.2256, 0.3078, 0.3637



90.2256, 0.2793, 0.2887



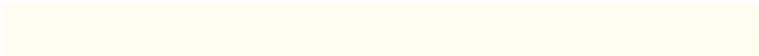
90.2256, 0.3163, 0.2975

# Sweetspot

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



90.2296, 0.3462, 0.3708



97.0539, 0.3219, 0.3407



68.3288, 0.3457, 0.3174



20.7063, 0.3229, 0.3420



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

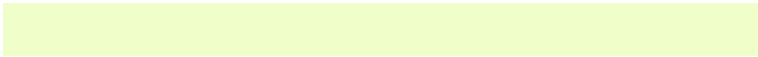
The Same Dimension uses a secret algorithm to generate beautiful new colors.



90.2296, 0.3462, 0.3708



88.4379, 0.3536, 0.3796



94.2725, 0.3342, 0.3827



20.4161, 0.3274, 0.3477



33.4845, 0.4613, 0.4719



3.4131, 0.4556, 0.4764



# Inverse Universe

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



67.3390, 0.2786, 0.2834



61.7127, 0.2708, 0.2727



64.2199, 0.2880, 0.2728



17.9854, 0.2979, 0.3096



5.2566, 0.1557, 0.0804



0.6594, 0.1611, 0.0998



# Previews

## White Background



This preview shows how the Yxy color 90.2256, 0.3462, 0.3708 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

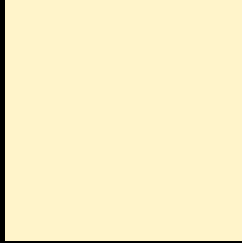
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.2256, 0.3462, 0.3708 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

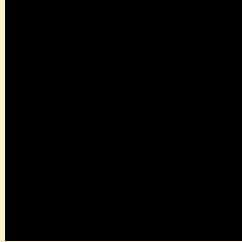
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

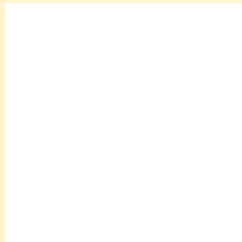
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 90.2256, 0.3462, 0.3708**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.2256, 0.3462, 0.3708.



This preview shows how white text looks on a background with the Yxy color 90.2256, 0.3462, 0.3708.

# 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

90.2256, 0.3462, 0.3708

### Protanopia

90.0143, 0.3413, 0.3618

### Deuteranopia

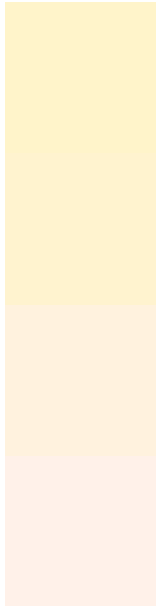
90.0538, 0.3270, 0.3369



## Tritanopia

89.9580, 0.3159, 0.3174

# Trichromacy



## Original Color

90.2256, 0.3462, 0.3708

## Protanomaly

89.8662, 0.3432, 0.3648

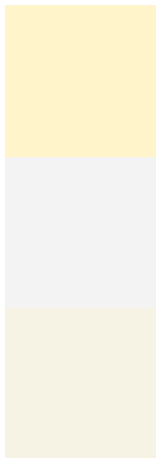
## Deuteranomaly

90.0382, 0.3338, 0.3488

## Tritanomaly

90.0538, 0.3270, 0.3369

# Monochromacy



## Original Color

90.2256, 0.3462, 0.3708

## Achromatopsia

89.6269, 0.3127, 0.3290

## Achromatomaly

89.4768, 0.3245, 0.3440

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.2256, 0.3462, 0.3708 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, 244, 202)` looks like.

```
.text, #text, p{  
    color:rgb(255, 244, 202)  
}
```

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, 244, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 244, 202) }
```

## Border

The CSS property to change the border of an element to Yxy 90.2256, 0.3462, 0.3708 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, 244, 202) }
```

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

```
.border{ border-color:rgb(255, 244, 202) }
```

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

Here you see how a box with a 4 pixel rgb(255, 244, 202) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 244, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 244, 202);  
box-shadow:4px 4px 4px 4px rgb(255, 244,  
202) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.2256, 0.3462, 0.3708 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 244, 202) }
```

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

```
.background{ background-color: rgb(255,  
244, 202) }
```

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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