

# Converting Colors

$Y_{xy}(163.8588, 0.3115, 0.4581)$

Have a look what the booklet for  
Yxy(163.8588, 0.3115, 0.4581)  
contains.

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# Color

**Yxy(90.2789, 0.3175, 0.3844)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7FFCB
RGB	215, 255, 203
RGB Percent	84%, 100%, 80%
CMY	0.1568, 0.0000, 0.2038
CMYK	0.16, 0.00, 0.20, 0.00
HSL	106°, 100%, 90%
HSV	106°, 20%, 100%
XYZ	74.5670, 90.2789, 70.0108
YIQ	237.1120, -7.1480, -24.6520

# Conversions

## Conversions Part 2

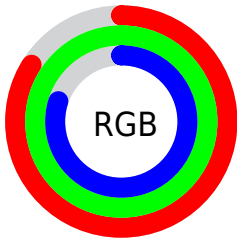
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 255, 243
Decimal	14155723
CIE <sub>Lab</sub>	96.11, -22.10, 20.67
CIE <sub>LCh</sub>	96, 30.260, 136.904
Yxy	90.2789, 0.3175, 0.3844
Android (android.graphics.Color)	4292345803 (0xFFD7FFCB)
YUV	237.1120, -16.8172, -19.3922
Hunter-Lab	95.0152, -26.1916, 22.8236

# Details

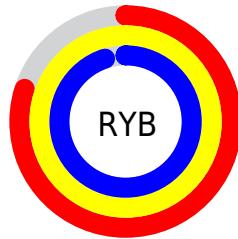
The Yxy color **90.2789, 0.3175, 0.3844** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **69.0031, 0.3064, 0.2768**, and the grayscale version is **84.9178, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **50.0317, 0.3181, 0.3967** is the 20% darker color. If you saturate the color by 10%, you get **86.3684, 0.3194, 0.4157**, and if you desaturate by 10%, it is **94.7496, 0.3153, 0.3557**.

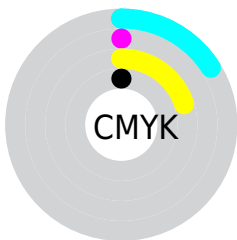
# Distribution



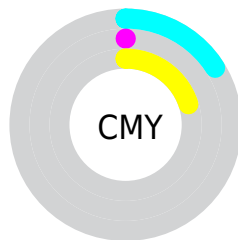
- Red (84%)
- Green (100%)
- Blue (80%)



- Red (80%)
- Yellow (100%)
- Blue (95%)



- Cyan (16%)
- Magenta (0%)
- Yellow (20%)
- Black (0%)




- Cyan (16%)
- Magenta (0%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.2789, 0.3175, 0.3844 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 90.2789, 0.3175, 0.3844 by changing the saturation by 10% instead.




 90.2789, 0.3175,  
0.3844

 90.2789, 0.3175,  
0.3844


528.9377, 0.3158,  
0.3589

 68.2120, 0.3178,  
0.3902


147.7257, 0.3170,  
0.3756

 50.0702, 0.3180,  
0.3973


183.8744, 0.3168,  
0.3721

 35.4692, 0.3182,  
0.4063


225.4859, 0.3166,  
0.3692

 24.0245, 0.3184,  
0.4179

272.9444, 0.3164,  
0.3666

 15.3518, 0.3183,  
0.4336

326.6345, 0.3163,  
0.3643

 9.0667, 0.3176,  
0.4559

386.9405, 0.3161,

 4.7847, 0.3153,

0.3623

0.4896

454.2467, 0.3160,  
0.3605

■ 2.1215, 0.3137,  
0.5561

■ 0.6767, 0.1330,  
0.8670

■ 90.2789, 0.3175,  
0.3844

■ 90.2789, 0.3175,  
0.3844

■ 86.3684, 0.3194,  
0.4157

■ 94.7496, 0.3153,  
0.3557

■ 82.9899, 0.3206,  
0.4489

99.7957, 0.3128,  
0.3299

■ 80.1214, 0.3211,  
0.4827

100.0000, 0.3127,  
0.3290

■ 77.7374, 0.3205,  
0.5153

■ 75.8095, 0.3187,  
0.5445

■ 74.3066, 0.3157,  
0.5681

■ 73.1928, 0.3118,  
0.5846

■ 72.4428, 0.3078,  
0.5938

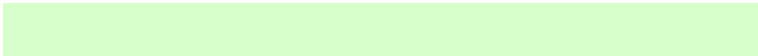
# Harmonies

## Analogous

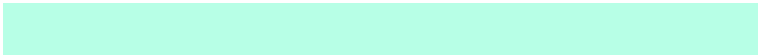
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



90.2789, 0.3502, 0.3893



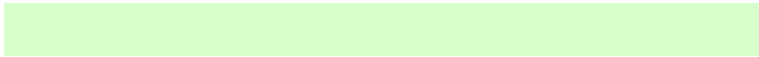
90.2789, 0.3175, 0.3844



90.2789, 0.2847, 0.3618

# Triad

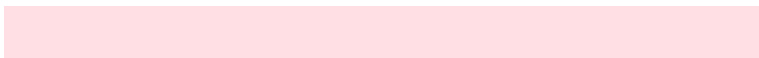
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



90.2789, 0.3175, 0.3844



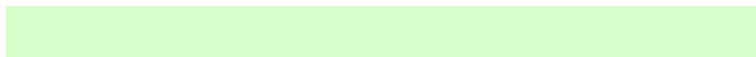
90.2789, 0.2545, 0.2795



90.2789, 0.3676, 0.3248

# Complementary

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



90.2789, 0.3175, 0.3844



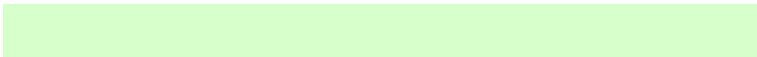
69.0031, 0.3064, 0.2768

# Split Complementary

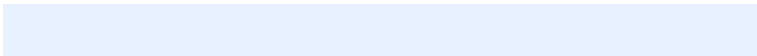
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



90.2789, 0.3395, 0.2990



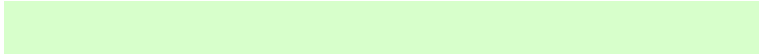
90.2789, 0.3175, 0.3844



90.2789, 0.2743, 0.2733

# Square

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



90.2789, 0.3175, 0.3844



90.2789, 0.2496, 0.2994



90.2789, 0.3050, 0.2806

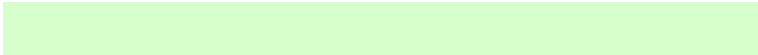


90.2789, 0.3803, 0.3528

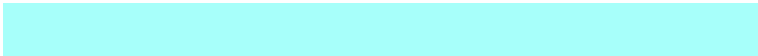


# Rectangle

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



90.2789, 0.3175, 0.3844



90.2789, 0.2671, 0.3407



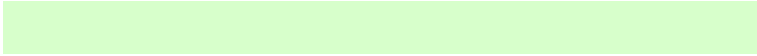
90.2789, 0.3050, 0.2806



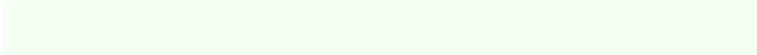
90.2789, 0.3596, 0.3157

# Sweetspot

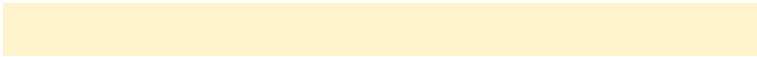
The Sweet Spot groups the original color and five complimentary colors.



90.2809, 0.3175, 0.3844



96.8884, 0.3142, 0.3440



89.5982, 0.3458, 0.3687



20.6683, 0.3144, 0.3457



0.0000, 0.0000, 0.0000

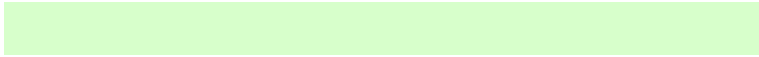


21.4041, 0.3127, 0.3290

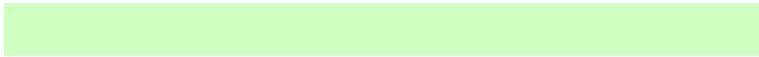


# Same Dimension

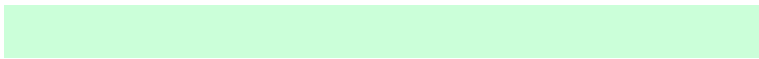
The Same Dimension uses a secret algorithm to generate beautiful new colors.



90.2809, 0.3175, 0.3844



88.8021, 0.3182, 0.3955



89.2241, 0.3024, 0.3701



20.3701, 0.3150, 0.3533



37.9079, 0.3087, 0.5931



3.7377, 0.3160, 0.5873



# Inverse Universe

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



69.0031, 0.3064, 0.2768



64.3970, 0.3050, 0.2671



70.3438, 0.3249, 0.2911



18.0769, 0.3101, 0.3053



9.9917, 0.2630, 0.1223

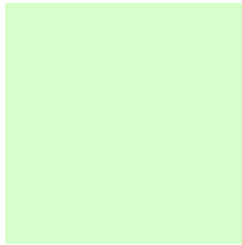


1.0217, 0.2699, 0.1261



# Previews

## White Background



This preview shows how the Yxy color 90.2789, 0.3175, 0.3844 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

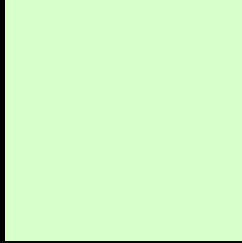
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.2789, 0.3175, 0.3844 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

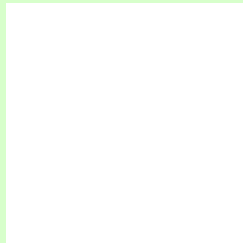
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 90.2789, 0.3175, 0.3844**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.2789, 0.3175, 0.3844.

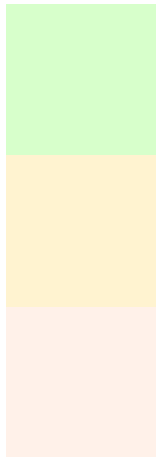


This preview shows how white text looks on a background with the Yxy color 90.2789, 0.3175, 0.3844.

# 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

90.2789, 0.3175, 0.3844

### Protanopia

89.9153, 0.3426, 0.3638

### Deuteranopia

90.0538, 0.3270, 0.3369



## Tritanopia

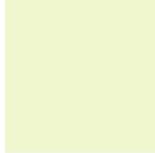
90.0172, 0.2999, 0.3190

# Trichromacy



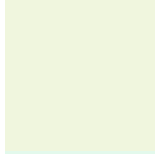
## Original Color

90.2789, 0.3175, 0.3844



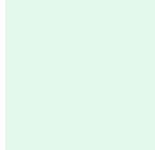
## Protanomaly

89.5030, 0.3330, 0.3710



## Deuteranomaly

89.7107, 0.3233, 0.3534



## Tritanomaly

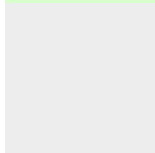
90.1384, 0.3064, 0.3423

# Monochromacy



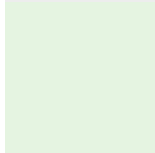
## Original Color

90.2789, 0.3175, 0.3844



## Achromatopsia

84.6873, 0.3127, 0.3290



## Achromatomaly

86.7956, 0.3144, 0.3487

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.2789, 0.3175, 0.3844 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(215, 255, 203)` looks like.

```
.text, #text, p{  
    color:rgb(215, 255, 203)  
}
```

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(215, 255, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 255, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 90.2789, 0.3175, 0.3844 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(215, 255, 203) }
```

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

```
.border{ border-color:rgb(215, 255, 203) }
```

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

Here you see how a box with a 4 pixel rgb(215, 255, 203) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 255, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 255, 203);  
box-shadow:4px 4px 4px 4px rgb(215, 255,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.2789, 0.3175, 0.3844 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 255, 203) }
```

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

```
.background{ background-color: rgb(215,  
255, 203) }
```

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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