

# Converting Colors

$Y_{xy}(100.0000, 0.4516, 0.4751)$

Have a look what the booklet for  
Yxy(100.0000, 0.4516, 0.4751)  
contains.

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**Color**

**Yxy(90.3431, 0.4199, 0.4994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFB1D
RGB	255, 251, 29
RGB Percent	100%, 98%, 11%
CMY	0.0000, 0.0157, 0.8861
CMYK	0.00, 0.02, 0.89, 0.00
HSL	59°, 100%, 56%
HSV	59°, 89%, 100%
XYZ	75.9613, 90.3431, 14.5989
YIQ	226.8880, 73.6460, -68.1940

# Conversions

## Conversions Part 2

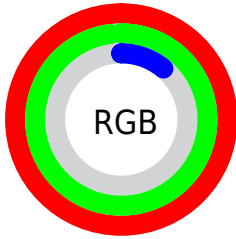
Format	Color
R <sub>Y</sub> B	33, 255, 29
Decimal	16775965
CIE Lab	96.14, -19.35, 90.98
CIE LCh	96, 93.014, 102.010
Yxy	90.3431, 0.4199, 0.4994
Android (android.graphics.Color)	4294966045 (0xFFFFFB1D)
YUV	226.8880, -97.5588, 24.6542
Hunter-Lab	95.0490, -23.6820, 57.4277

# Details

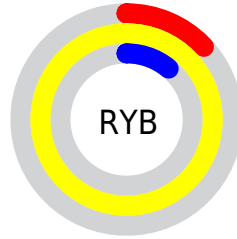
The Yxy color **90.3431, 0.4199, 0.4994** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **8.5722, 0.1554, 0.0697**, and the grayscale version is **77.4193, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.7795, 0.3969, 0.4682**, and **50.4995, 0.4184, 0.5060** is the 20% darker color. If you saturate the color by 10%, you get **89.9835, 0.4222, 0.5025**, and if you desaturate by 10%, it is **90.8108, 0.4151, 0.4924**.

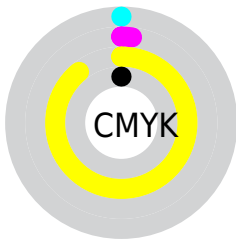
# Distribution



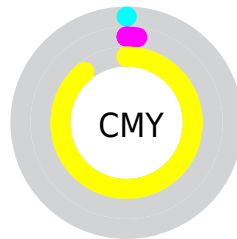
- Red (100%)
- Green (98%)
- Blue (11%)



- Red (13%)
- Yellow (100%)
- Blue (11%)



- Cyan (0%)
- Magenta (2%)
- Yellow (89%)
- Black (0%)




- Cyan (0%)
- Magenta (2%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 90.3431, 0.4199, 0.4994 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 90.3431, 0.4199, 0.4994 by changing the saturation by 10% instead.




 90.3431, 0.4199,  
0.4994

 90.3431, 0.4199,  
0.4994


529.1463, 0.3817,  
0.4296

 68.2652, 0.4252,  
0.5119


 147.8149, 0.4094,  
0.4778

 50.1136, 0.4299,  
0.5255


 183.9776, 0.4045,  
0.4686


 35.5036, 0.4334,  
0.5397


 225.6041, 0.4000,  
0.4604

 24.0511, 0.4353,  
0.5553

 273.0787, 0.3957,  
0.4529

 15.3715, 0.4315,  
0.5685

 326.7858, 0.3918,  
0.4462

 9.0805, 0.4204,  
0.5796

387.1098, 0.3881,

 4.7938, 0.4040,

0.4401

0.5960

454.4352, 0.3848,  
0.4346

■ 2.1268, 0.3770,  
0.6230

■ 0.6796, 0.2034,  
0.7966

■ 90.3431, 0.4199,  
0.4994

■ 90.3431, 0.4199,  
0.4994

■ 89.9835, 0.4222,  
0.5025

■ 90.8108, 0.4151,  
0.4924

■ 89.9366, 0.4225,  
0.5027

■ 91.4019, 0.4077,  
0.4810


■ 92.1367, 0.3976,  
0.4653

■ 93.0296, 0.3854,  
0.4459

 94.0932, 0.3714,  
0.4237

 95.3392, 0.3564,  
0.3996

 96.7778, 0.3410,  
0.3747

 98.4187, 0.3256,  
0.3499

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.



90.3431, 0.4905, 0.4340



90.3431, 0.4199, 0.4994



90.3431, 0.3278, 0.5216

# Triad

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



90.3431, 0.4199, 0.4994



90.3431, 0.1454, 0.2431



90.3431, 0.3726, 0.2368

# Complementary

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



90.3431, 0.4199, 0.4994



8.5722, 0.1554, 0.0697

# 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.



90.3431, 0.2685, 0.1964



90.3431, 0.4199, 0.4994



90.3431, 0.1532, 0.1937

# Square

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



90.3431, 0.4199, 0.4994



90.3431, 0.1719, 0.3381



90.3431, 0.1933, 0.1808



90.3431, 0.4706, 0.2952



# Rectangle

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



90.3431, 0.4199, 0.4994



90.3431, 0.2653, 0.4881



90.3431, 0.1933, 0.1808



90.3431, 0.3362, 0.2209

# Sweetspot

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



90.3461, 0.4199, 0.4994



95.5572, 0.3540, 0.3956



22.2721, 0.6170, 0.3271



20.3553, 0.3592, 0.4040



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.



90.3461, 0.4199, 0.4994



89.9366, 0.4225, 0.5027



78.0510, 0.3458, 0.5567



21.0323, 0.3270, 0.3521



47.0189, 0.4224, 0.5028



4.5950, 0.4220, 0.5031



# Inverse Universe

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



8.5722, 0.1554, 0.0697



7.3179, 0.1502, 0.0607



13.2102, 0.2069, 0.0962



17.4292, 0.2978, 0.3048



3.8460, 0.1503, 0.0611

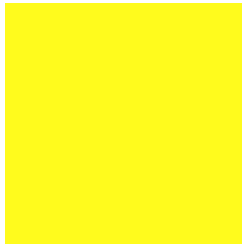


0.3918, 0.1510, 0.0636



# Previews

## White Background



This preview shows how the Yxy color 90.3431, 0.4199, 0.4994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

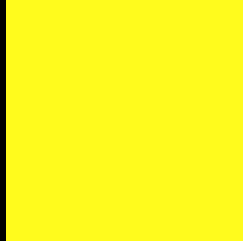
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 90.3431, 0.4199, 0.4994 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 90.3431, 0.4199, 0.4994**

## **Background**



This preview shows how black text looks on a background with the Yxy color 90.3431, 0.4199, 0.4994.



This preview shows how white text looks on a background with the Yxy color 90.3431, 0.4199, 0.4994.

# 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



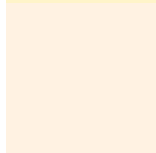
### Original Color

90.3431, 0.4199, 0.4994



### Protanopia

90.1784, 0.3469, 0.3718



### Deuteranopia

90.2552, 0.3313, 0.3448



## Tritanopia

90.2956, 0.3183, 0.3222

# Trichromacy



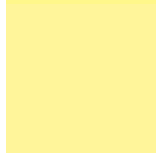
## Original Color

90.3431, 0.4199, 0.4994



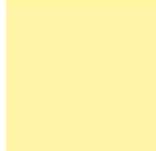
## Protanomaly

89.6165, 0.3841, 0.4353



## Deuteranomaly

88.8979, 0.3758, 0.4190



## Tritanomaly

88.7885, 0.3677, 0.4047

# Monochromacy



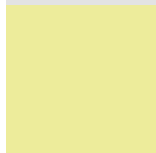
## Original Color

90.3431, 0.4199, 0.4994



## Achromatopsia

76.8151, 0.3127, 0.3290



## Achromatomaly

80.3620, 0.3652, 0.4143

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 90.3431, 0.4199, 0.4994 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, 251, 29)` looks like.

```
.text, #text, p{  
    color:rgb(255, 251, 29)  
}
```

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, 251, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 251, 29) }
```

## Border

The CSS property to change the border of an element to Yxy 90.3431, 0.4199, 0.4994 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".

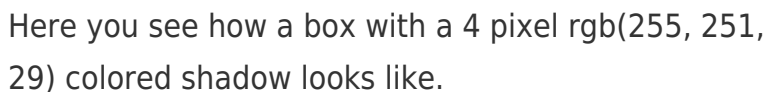
```
.border, #border, table{ border:4px solid rgb(255, 251, 29) }
```

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

```
.border{ border-color:rgb(255, 251, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 251, 29)` colored shadow looks like.



```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 251, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 251, 29);  
box-shadow:4px 4px 4px 4px rgb(255, 251,  
29) }
```



# Background

The CSS property to change the background color of an element to Yxy 90.3431, 0.4199, 0.4994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 251, 29) }
```

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

```
.background{ background-color: rgb(255,  
251, 29) }
```

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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