

# Converting Colors

$Y_{xy}(100.0000, 0.4041, 0.5086)$

Have a look what the booklet for  
Yxy(100.0000, 0.4041, 0.5086)  
contains.

<b>Yxy(91.9972, 0.4122, 0.5018)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(91.9972, 0.4122, 0.5018)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FAFF28
RGB	250, 255, 40
RGB Percent	98%, 100%, 16%
CMY	0.0195, 0.0000, 0.8437
CMYK	0.02, 0.00, 0.84, 0.00
HSL	61°, 100%, 58%
HSV	61°, 84%, 100%
XYZ	75.5704, 91.9972, 15.7668
YIQ	228.9950, 66.0350, -67.9250

# Conversions

## Conversions Part 2

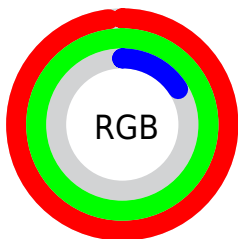
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	40, 255, 45
Decimal	16449320
CIE Lab	96.82, -23.08, 89.49
CIE LCh	97, 92.420, 104.463
Yxy	91.9972, 0.4122, 0.5018
Android (android.graphics.Color)	4294639400 (0xFFFAFF28)
YUV	228.9950, -93.1745, 18.4214
Hunter-Lab	95.9152, -27.2135, 57.3944

# Details

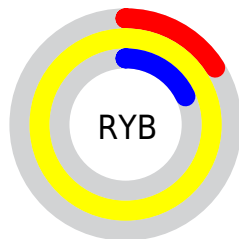
The Yxy color **91.9972, 0.4122, 0.5018** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **9.2811, 0.1596, 0.0745**, and the grayscale version is **79.0044, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9058, 0.3944, 0.4640**, and **51.6657, 0.4105, 0.5122** is the 20% darker color. If you saturate the color by 10%, you get **91.7713, 0.4147, 0.5070**, and if you desaturate by 10%, it is **92.3425, 0.4072, 0.4923**.

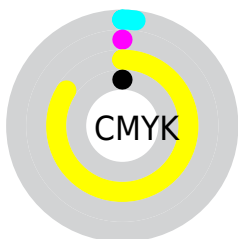
# Distribution



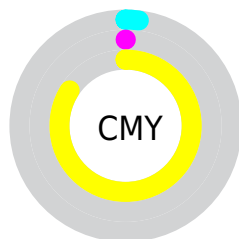
- Red (98%)
- Green (100%)
- Blue (16%)



- Red (16%)
- Yellow (100%)
- Blue (18%)



- Cyan (2%)
- Magenta (0%)
- Yellow (84%)
- Black (0%)



- Cyan (2%)
- Magenta (0%)
- Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 91.9972, 0.4122, 0.5018 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 91.9972, 0.4122, 0.5018 by changing the saturation by 10% instead.





 91.9972, 0.4122,  
0.5018


 91.9972, 0.4122,  
0.5018


534.5065, 0.3772,  
0.4300

 69.6383, 0.4169,  
0.5150


 150.1095, 0.4027,  
0.4793

 51.2317, 0.4211,  
0.5295

 186.6317, 0.3982,  
0.4698


 36.3931, 0.4240,  
0.5451


 228.6438, 0.3940,  
0.4614

 24.7379, 0.4247,  
0.5619

 276.5302, 0.3901,  
0.4537

 15.8819, 0.4211,  
0.5789

 330.6753, 0.3865,  
0.4469

 9.4406, 0.4082,  
0.5918


391.4634, 0.3831,


 5.0297, 0.3890,


0.4407


0.6110


459.2790, 0.3800,  
0.4351


 2.2647, 0.3577,  
0.6423

 0.7549, 0.1695,  
0.8305


 91.9972, 0.4122,  
0.5018


 91.9972, 0.4122,  
0.5018


 91.7713, 0.4147,  
0.5070


 92.3425, 0.4072,  
0.4923


 91.6776, 0.4152,  
0.5085


 92.8190, 0.3994,  
0.4784


 93.4453, 0.3893,  
0.4604

 94.2349, 0.3770,  
0.4391

 95.2000, 0.3633,  
0.4154

 96.3515, 0.3487,  
0.3903

 97.6995, 0.3338,  
0.3648

 99.2533, 0.3190,  
0.3397

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.



91.9972, 0.4845, 0.4392



91.9972, 0.4122, 0.5018



91.9972, 0.3202, 0.5172

# Triad

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



91.9972, 0.4122, 0.5018



91.9972, 0.1464, 0.2386



91.9972, 0.3808, 0.2419

# Complementary

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



91.9972, 0.4122, 0.5018



9.2811, 0.1596, 0.0745

# 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.



91.9972, 0.2767, 0.2001



91.9972, 0.4122, 0.5018



91.9972, 0.1567, 0.1928

# Square

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



91.9972, 0.4122, 0.5018



91.9972, 0.1698, 0.3289



91.9972, 0.1993, 0.1824



91.9972, 0.4748, 0.3009



# Rectangle

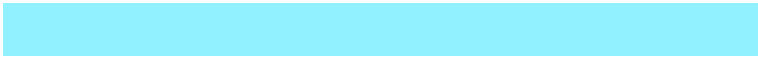
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



91.9972, 0.4122, 0.5018



91.9972, 0.2589, 0.4789



91.9972, 0.1993, 0.1824



91.9972, 0.3448, 0.2256

# Sweetspot

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



91.9997, 0.4122, 0.5018



96.2738, 0.3496, 0.3919



23.1714, 0.6080, 0.3315



20.5162, 0.3548, 0.4008



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.



91.9997, 0.4122, 0.5018



91.6776, 0.4152, 0.5085



77.5867, 0.3409, 0.5555



21.0681, 0.3266, 0.3525



47.9132, 0.4153, 0.5084



4.6717, 0.4158, 0.5081



# Inverse Universe

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



9.2811, 0.1596, 0.0745



7.2581, 0.1505, 0.0603



15.3073, 0.2211, 0.1072



17.3978, 0.2982, 0.3044



3.8012, 0.1507, 0.0604

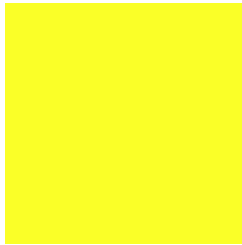


0.3768, 0.1523, 0.0613



# Previews

## White Background



This preview shows how the Yxy color 91.9972, 0.4122, 0.5018 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

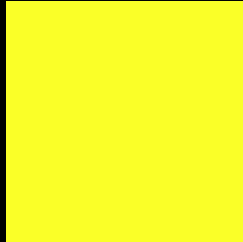
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 91.9972, 0.4122, 0.5018 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 91.9972, 0.4122, 0.5018**

## **Background**



This preview shows how black text looks on a background with the Yxy color 91.9972, 0.4122, 0.5018.



This preview shows how white text looks on a background with the Yxy color 91.9972, 0.4122, 0.5018.

# 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



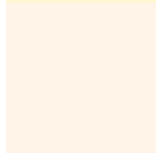
### Original Color

91.9972, 0.4122, 0.5018



### Protanopia

91.8747, 0.3402, 0.3636



### Deuteranopia

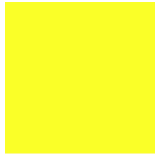
91.7309, 0.3279, 0.3418



## Tritanopia

91.6664, 0.3163, 0.3213

# Trichromacy



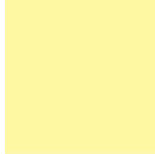
## Original Color

91.9972, 0.4122, 0.5018



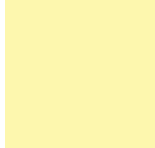
## Protanomaly

90.8039, 0.3758, 0.4276



## Deuteranomaly

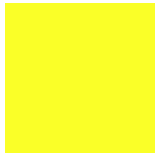
90.5907, 0.3692, 0.4154



## Tritanomaly

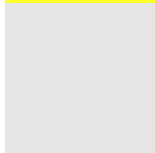
90.4602, 0.3617, 0.4019

# Monochromacy



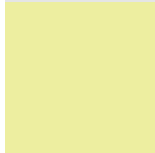
## Original Color

91.9972, 0.4122, 0.5018



## Achromatopsia

78.3538, 0.3127, 0.3290



## Achromatomaly

81.6917, 0.3614, 0.4110

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 91.9972, 0.4122, 0.5018 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(250, 255, 40)` looks like.

```
.text, #text, p{  
    color:rgb(250, 255, 40)  
}
```

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(250, 255, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 255, 40) }
```

## Border

The CSS property to change the border of an element to Yxy 91.9972, 0.4122, 0.5018 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(250, 255, 40) }
```

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

```
.border{ border-color:rgb(250, 255, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 255, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 255, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 255, 40);  
box-shadow:4px 4px 4px 4px rgb(250, 255,  
40) }
```



# Background

The CSS property to change the background color of an element to Yxy 91.9972, 0.4122, 0.5018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 255, 40) }
```

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

```
.background{ background-color: rgb(250,  
255, 40) }
```

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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