

# Converting Colors

$Y_{xy}(79.1500, 0.4167, 0.4602)$

Have a look what the booklet for  
Yxy(79.1500, 0.4167, 0.4602)  
contains.

<b>Yxy(79.1500, 0.4167, 0.4602)</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(79.1500, 0.4167, 0.4602)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE75A
RGB	255, 231, 90
RGB Percent	100%, 91%, 35%
CMY	0.0000, 0.0941, 0.6471
CMYK	0.00, 0.09, 0.65, 0.00
HSL	51°, 100%, 68%
HSV	51°, 65%, 100%
XYZ	71.6684, 79.1500, 21.1720
YIQ	222.1020, 59.5650, -38.7630

# Conversions

## Conversions Part 2

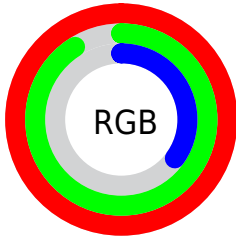
Format	Color
R <sub>Y</sub> B	118, 255, 90
Decimal	16770906
CIE Lab	91.30, -7.42, 69.14
CIE LCh	91, 69.532, 96.123
Yxy	79.1500, 0.4167, 0.4602
Android (android.graphics.Color)	4294960986 (0xFFFFE75A)
YUV	222.1020, -65.1263, 28.8515
Hunter-Lab	88.9663, -11.8971, 48.1667

# Details

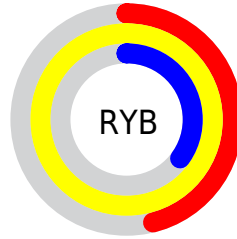
The Yxy color **79.1500, 0.4167, 0.4602** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **21.4287, 0.1925, 0.1458**, and the grayscale version is **73.5587, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.8553, 0.3766, 0.4347**, and **42.7366, 0.4330, 0.4839** is the 20% darker color. If you saturate the color by 10%, you get **76.7320, 0.4290, 0.4721**, and if you desaturate by 10%, it is **81.7586, 0.4021, 0.4443**.

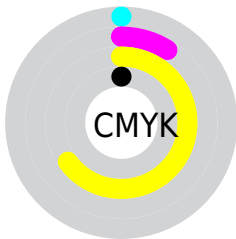
# Distribution



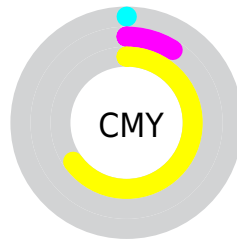
- Red (100%)
- Green (91%)
- Blue (35%)



- Red (46%)
- Yellow (100%)
- Blue (35%)



- Cyan (0%)
- Magenta (9%)
- Yellow (65%)
- Black (0%)




- Cyan (0%)
- Magenta (9%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 79.1500, 0.4167, 0.4602 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 79.1500, 0.4167, 0.4602 by changing the saturation by 10% instead.





 79.1500, 0.4167,  
0.4602


 79.1500, 0.4167,  
0.4602

492.0636, 0.3738,  
0.4038


 59.0191, 0.4245,  
0.4712

 132.1700, 0.4033,  
0.4420


 42.6285, 0.4331,  
0.4837


 165.8280, 0.3976,  
0.4345

 29.5938, 0.4420,  
0.4976


 204.7637, 0.3926,  
0.4278

 19.5304, 0.4507,  
0.5125

 249.3617, 0.3880,  
0.4219

 12.0542, 0.4615,  
0.5321

300.0063, 0.3839,  
0.4167

 6.7806, 0.4596,  
0.5404

357.0819, 0.3802,

 3.3253, 0.4520,

0.4119

420.9729, 0.3769,  
0.4077

0.5480

■ 1.3038, 0.4388,  
0.5612

■ 0.1442, 0.0000,  
1.0000

■ 79.1500, 0.4167,  
0.4602

■ 79.1500, 0.4167,  
0.4602

■ 76.7320, 0.4290,  
0.4721

■ 81.7586, 0.4021,  
0.4443

■ 74.4919, 0.4387,  
0.4795

■ 84.5751, 0.3860,  
0.4254

■ 72.4084, 0.4454,  
0.4823

■ 87.6110, 0.3692,  
0.4045

■ 71.3540, 0.4481,  
0.4824

■ 90.8773, 0.3522,  
0.3826

■ 94.3846, 0.3356,  
0.3605

■ 98.1424, 0.3198,  
0.3389

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.



79.1500, 0.4646, 0.4094



79.1500, 0.4167, 0.4602



79.1500, 0.3447, 0.4791

# Triad

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



79.1500, 0.4167, 0.4602



79.1500, 0.1776, 0.2755



79.1500, 0.3442, 0.2461

# Complementary

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



79.1500, 0.4167, 0.4602



21.4287, 0.1925, 0.1458

# 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.



79.1500, 0.2644, 0.2156



79.1500, 0.4167, 0.4602



79.1500, 0.1778, 0.2258

# Square

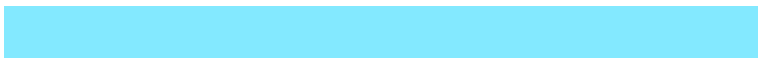
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



79.1500, 0.4167, 0.4602



79.1500, 0.2081, 0.3559



79.1500, 0.2069, 0.2075



79.1500, 0.4238, 0.2935



# Rectangle

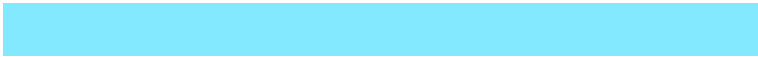
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



79.1500, 0.4167, 0.4602



79.1500, 0.2929, 0.4598



79.1500, 0.2069, 0.2075



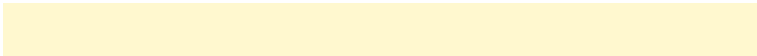
79.1500, 0.3161, 0.2337

# Sweetspot

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



79.1489, 0.4167, 0.4602



92.8484, 0.3427, 0.3699



29.8044, 0.4938, 0.3068



19.6598, 0.3474, 0.3763



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.



79.1489, 0.4167, 0.4602



75.9755, 0.4325, 0.4751



84.1623, 0.3622, 0.5022



20.6137, 0.3273, 0.3491



37.4560, 0.4476, 0.4828



3.7645, 0.4438, 0.4858



# Inverse Universe

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



21.4287, 0.1925, 0.1458



14.5659, 0.1715, 0.1089



20.8049, 0.2236, 0.1373



17.8039, 0.2979, 0.3080



4.5946, 0.1532, 0.0715



0.5686, 0.1578, 0.0881



# Previews

## White Background



This preview shows how the Yxy color 79.1500, 0.4167, 0.4602 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 79.1500, 0.4167, 0.4602 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 79.1500, 0.4167, 0.4602**

## **Background**



This preview shows how black text looks on a background with the Yxy color 79.1500, 0.4167, 0.4602.

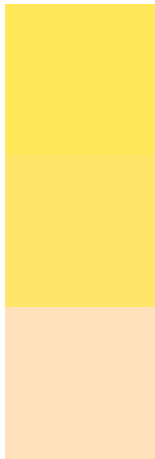


This preview shows how white text looks on a background with the Yxy color 79.1500, 0.4167, 0.4602.

# 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

79.1500, 0.4167, 0.4602

### Protanopia

78.8942, 0.4097, 0.4480

### Deuteranopia

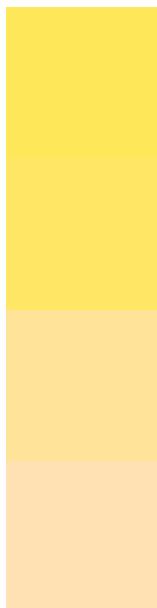
78.7413, 0.3598, 0.3668



## Tritanopia

78.7991, 0.3297, 0.3181

# Trichromacy



## Original Color

79.1500, 0.4167, 0.4602

## Protanomaly

78.7737, 0.4127, 0.4525

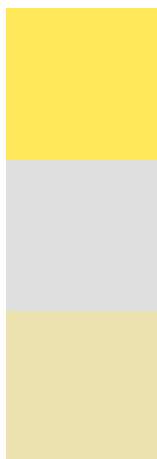
## Deuteranomaly

78.4652, 0.3838, 0.4049

## Tritanomaly

78.4057, 0.3654, 0.3750

# Monochromacy



## Original Color

79.1500, 0.4167, 0.4602

## Achromatopsia

73.0461, 0.3127, 0.3290

## Achromatomaly

74.3988, 0.3536, 0.3841

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 79.1500, 0.4167, 0.4602 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, 231, 90)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 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, 231, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 90) }
```

## Border

The CSS property to change the border of an element to Yxy 79.1500, 0.4167, 0.4602 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, 231, 90) }
```

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

```
.border{ border-color:rgb(255, 231, 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, 231, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 90);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
90) }
```



# Background

The CSS property to change the background color of an element to Yxy 79.1500, 0.4167, 0.4602 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 231, 90) }
```

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

```
.background{ background-color: rgb(255,  
231, 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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