

# Converting Colors

$Y_{xy}(78.4855, 0.4012, 0.5196)$

Have a look what the booklet for  
Yxy(78.4855, 0.4012, 0.5196)  
contains.

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# Color

**Yxy(78.4097, 0.4017, 0.5192)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DAF200
RGB	218, 242, 0
RGB Percent	85%, 95%, 0%
CMY	0.1451, 0.0510, 0.9987
CMYK	0.10, 0.00, 1.00, 0.05
HSL	66°, 100%, 48%
HSV	66°, 100%, 95%
XYZ	60.6648, 78.4097, 11.9457
YIQ	207.2360, 63.3780, -80.3500

# Conversions

## Conversions Part 2

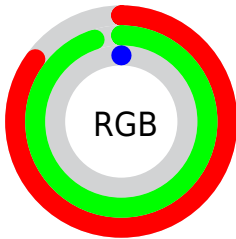
Format	Color
<a href="#">RYB</a>	<a href="#">0, 242, 24</a>
Decimal	<a href="#">14348800</a>
CIELab	<a href="#">90.97, -30.57, 88.68</a>
CIELCh	<a href="#">91, 93.801, 109.018</a>
Yxy	<a href="#">78.4097, 0.4017, 0.5192</a>
Android (android.graphics.Color)	<a href="#">4292538880</a> ( <a href="#">0xFFDAF200</a> )
YUV	<a href="#">207.2360, -102.1673, 9.4400</a>
Hunter-Lab	<a href="#">88.5493, -32.6714, 53.9860</a>

# Details

The Yxy color **78.4097, 0.4017, 0.5192** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **6.6169, 0.1528, 0.0616**, and the grayscale version is **63.2243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5703, 0.4013, 0.4755**, and **42.3869, 0.3930, 0.5262** is the 20% darker color. If you saturate the color by 10%, you get **78.4075, 0.4017, 0.5193**, and if you desaturate by 10%, it is **78.8542, 0.4016, 0.5144**.

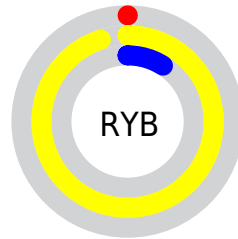
# Distribution



Red (85%)

Green (95%)

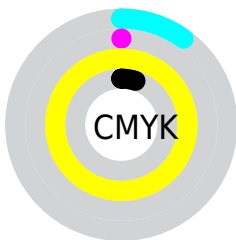
Blue (0%)



Red (0%)

Yellow (95%)

Blue (9%)

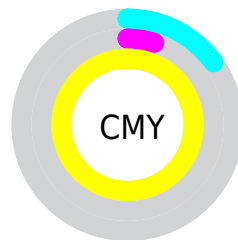


Cyan (10%)

Magenta (0%)

Yellow (100%)

Black (5%)



Cyan (15%)

Magenta (5%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.4097, 0.4017, 0.5192 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 78.4097, 0.4017, 0.5192 by changing the saturation by 10% instead.





 78.4097, 0.4017,  
0.5192


 78.4097, 0.4017,  
0.5192


489.5571, 0.3717,  
0.4366

 58.4106, 0.4048,  
0.5349


 131.1275, 0.3942,  
0.4928


 42.1388, 0.4067,  
0.5523


 164.6150, 0.3904,  
0.4818

 29.2100, 0.4062,  
0.5711


 203.3674, 0.3868,  
0.4720

 19.2398, 0.4045,  
0.5955

 247.7691, 0.3834,  
0.4633

 11.8436, 0.3895,  
0.6105

 298.2046, 0.3801,  
0.4555

 6.6373, 0.3678,  
0.6322


 355.0581, 0.3771,


 3.2363, 0.3341,


0.4486


0.6659


418.7142, 0.3743,  
0.4423


 1.2563, 0.2450,  
0.7550


 0.1070, 0.0000,  
1.0000


 78.4097, 0.4017,  
0.5192


 78.4097, 0.4017,  
0.5192

 78.4075, 0.4017,  
0.5193

 78.8542, 0.4016,  
0.5144

 79.3844, 0.3993,  
0.5058

 80.0294, 0.3944,  
0.4926

 80.8046, 0.3868,  
0.4751

■ 81.7229, 0.3771,  
0.4541

■ 82.7958, 0.3655,  
0.4303

■ 84.0335, 0.3527,  
0.4050

■ 85.4451, 0.3393,  
0.3791

■ 87.0394, 0.3258,  
0.3534

# Harmonies

## Analogous

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



78.4097, 0.4838, 0.4541



78.4097, 0.4017, 0.5192



78.4097, 0.3036, 0.5267

# Triad

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



78.4097, 0.4017, 0.5192



78.4097, 0.1373, 0.2220



78.4097, 0.4024, 0.2452

# Complementary

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



78.4097, 0.4017, 0.5192



6.6169, 0.1528, 0.0616

# 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.



78.4097, 0.2894, 0.1984



78.4097, 0.4017, 0.5192



78.4097, 0.1531, 0.1814

# Square

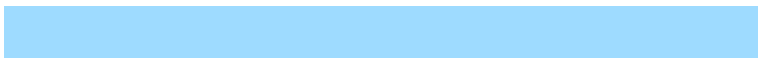
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



78.4097, 0.4017, 0.5192



78.4097, 0.1552, 0.3100



78.4097, 0.2026, 0.1758



78.4097, 0.4968, 0.3083



# Rectangle

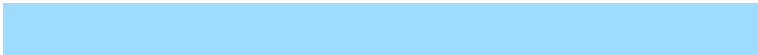
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78.4097, 0.4017, 0.5192



78.4097, 0.2405, 0.4760



78.4097, 0.2026, 0.1758



78.4097, 0.3640, 0.2273

# Sweetspot

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



78.4133, 0.4017, 0.5192



94.6010, 0.3530, 0.4056



19.3964, 0.6349, 0.3339



20.1178, 0.3585, 0.4164



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.



78.4133, 0.4017, 0.5192



88.2865, 0.4016, 0.5193



66.2778, 0.3250, 0.5801



18.3746, 0.3253, 0.3524



42.1524, 0.4020, 0.5190



3.5296, 0.4044, 0.5171



# Inverse Universe

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



6.6169, 0.1528, 0.0616



7.4310, 0.1526, 0.0614



12.1083, 0.2181, 0.0976



15.3039, 0.2995, 0.3047



3.5749, 0.1534, 0.0619

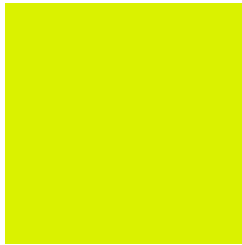


0.3225, 0.1610, 0.0660



# Previews

## White Background



This preview shows how the Yxy color 78.4097, 0.4017, 0.5192 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

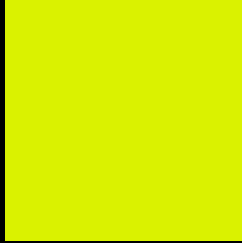
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.4097, 0.4017, 0.5192 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 78.4097, 0.4017, 0.5192**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.4097, 0.4017, 0.5192.



This preview shows how white text looks on a background with the Yxy color 78.4097, 0.4017, 0.5192.

# 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

78.4097, 0.4017, 0.5192

### Protanopia

77.9387, 0.4205, 0.4626

### Deuteranopia

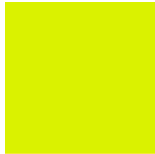
77.9487, 0.3643, 0.3720



## Tritanopia

78.1544, 0.3088, 0.3106

# Trichromacy



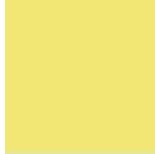
## Original Color

78.4097, 0.4017, 0.5192



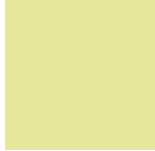
## Protanomaly

77.9892, 0.4176, 0.4883



## Deuteranomaly

77.2900, 0.3940, 0.4455



## Tritanomaly

76.1764, 0.3608, 0.4114

# Monochromacy



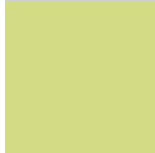
## Original Color

78.4097, 0.4017, 0.5192



## Achromatopsia

62.3960, 0.3127, 0.3290



## Achromatomaly

66.7012, 0.3652, 0.4302

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.4097, 0.4017, 0.5192 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(218, 242, 0)` looks like.

```
.text, #text, p{  
    color:rgb(218, 242, 0)  
}
```

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(218, 242, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 242, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 78.4097, 0.4017, 0.5192 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(218, 242, 0) }
```

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

```
.border{ border-color:rgb(218, 242, 0) }
```

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

Here you see how a box with a 4 pixel rgb(218, 242, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 242, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 242, 0);  
box-shadow:4px 4px 4px 4px rgb(218, 242,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.4097, 0.4017, 0.5192 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 242, 0) }
```

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

```
.background{ background-color: rgb(218,  
242, 0) }
```

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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