

# Converting Colors

$Y_{xy}(48.1912, 0.3032, 0.2258)$

Have a look what the booklet for  
Yxy(48.1912, 0.3032, 0.2258)  
contains.

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# Color

**Yxy(48.1796, 0.3032, 0.2258)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EE99FF
RGB	238, 153, 255
RGB Percent	93%, 60%, 100%
CMY	0.0668, 0.3999, 0.0000
CMYK	0.07, 0.40, 0.00, 0.00
HSL	290°, 100%, 80%
HSV	290°, 40%, 100%
XYZ	64.6947, 48.1796, 100.4986
YIQ	190.0430, 17.9180, 49.7420

# Conversions

## Conversions Part 2

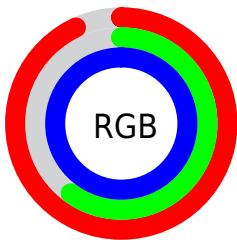
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 153, 255
Decimal	15636991
CIE Lab	74.94, 47.85, -37.94
CIE LCh	75, 61.066, 321.590
Yxy	48.1796, 0.3032, 0.2258
Android (android.graphics.Color)	4293827071 (0xFFEE99FF)
YUV	190.0430, 32.0238, 42.0583
Hunter-Lab	69.4115, 44.8999, -37.2559

# Details

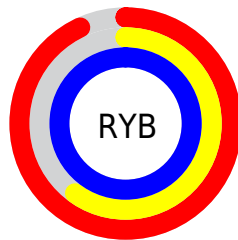
The Yxy color **48.1796, 0.3032, 0.2258** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **82.3714, 0.3167, 0.4490**, and the grayscale version is **51.3246, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.0809, 0.3148, 0.2841**, and **22.8949, 0.2983, 0.2034** is the 20% darker color. If you saturate the color by 10%, you get **39.9779, 0.2997, 0.2012**, and if you desaturate by 10%, it is **58.1861, 0.3063, 0.2518**.

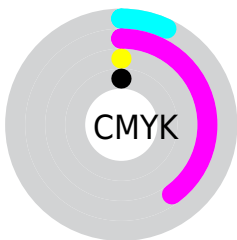
# Distribution



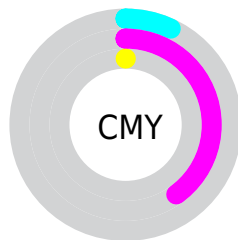
- Red (93%)
- Green (60%)
- Blue (100%)



- Red (93%)
- Yellow (60%)
- Blue (100%)



- Cyan (7%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (40%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1796, 0.3032, 0.2258 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 48.1796, 0.3032, 0.2258 by changing the saturation by 10% instead.




 48.1796, 0.3032,  
0.2258

 48.1796, 0.3032,  
0.2258


379.5036, 0.3094,  
0.2723

 33.9691, 0.3014,  
0.2156


 87.4718, 0.3057,  
0.2416

 22.8699, 0.2989,  
0.2033


 113.3222, 0.3066,  
0.2478

 14.4975, 0.2954,  
0.1881


143.8215, 0.3073,  
0.2533

 8.4675, 0.2903,  
0.1691

179.3540, 0.3079,  
0.2580

 4.3955, 0.2825,  
0.1447

220.3040, 0.3083,  
0.2622

 1.8972, 0.2697,  
0.1131

267.0560, 0.3088,

 0.5467, 0.2481,

0.2659

0.0677

319.9944, 0.3091,  
0.2693

0.0000, 0.2031,  
0.0000

0.0000, 0.0000,  
0.0000

48.1796, 0.3032,  
0.2258

48.1796, 0.3032,  
0.2258

39.9779, 0.2997,  
0.2012

58.1861, 0.3063,  
0.2518

33.4605, 0.2957,  
0.1791

70.0961, 0.3089,  
0.2782

28.5011, 0.2915,  
0.1604

84.0083, 0.3110,  
0.3041

24.9532, 0.2871,  
0.1461

100.0000, 0.3127,  
0.3290

■ 22.6420, 0.2826,  
0.1363

■ 21.2820, 0.2782,  
0.1306

■ 21.2811, 0.2782,  
0.1306

# Harmonies

## Analogous

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



48.1796, 0.2304, 0.2051



48.1796, 0.3032, 0.2258



48.1796, 0.3900, 0.2669

# Triad

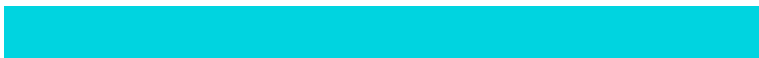
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.1796, 0.3032, 0.2258



48.1796, 0.4480, 0.4406



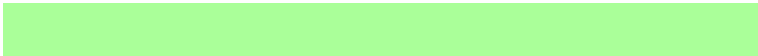
48.1796, 0.1845, 0.3104

# Complementary

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



48.1796, 0.3032, 0.2258



82.3714, 0.3167, 0.4490

# 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.



48.1796, 0.2312, 0.4019



48.1796, 0.3032, 0.2258



48.1796, 0.3830, 0.4811

# Square

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



48.1796, 0.3032, 0.2258



48.1796, 0.4788, 0.3818



48.1796, 0.3037, 0.4723



48.1796, 0.1699, 0.2426



# Rectangle

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



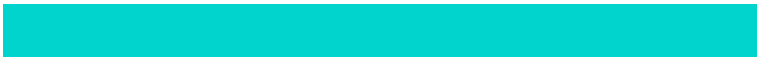
48.1796, 0.3032, 0.2258



48.1796, 0.4400, 0.3023



48.1796, 0.3037, 0.4723



48.1796, 0.1965, 0.3398

# Sweetspot

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



48.1815, 0.3032, 0.2258



81.0506, 0.3106, 0.2990



43.3910, 0.2417, 0.2286



16.9458, 0.3104, 0.2956



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.



48.1815, 0.3032, 0.2258



41.4742, 0.3004, 0.2059



49.3605, 0.3452, 0.2585



18.1379, 0.3111, 0.3054



11.1766, 0.2789, 0.1310



1.1271, 0.2840, 0.1338



# Inverse Universe

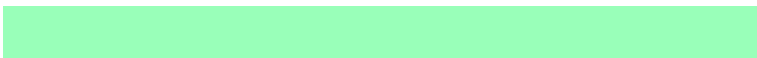
The Inverse Universe completely reimagines the original color for something new.



46.9526, 0.3972, 0.3113



40.2267, 0.4238, 0.3081



81.8102, 0.2909, 0.4125



18.0365, 0.3268, 0.3251



11.2127, 0.6161, 0.3168



1.1050, 0.5881, 0.3013



# Previews

## White Background



This preview shows how the Yxy color 48.1796, 0.3032, 0.2258 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

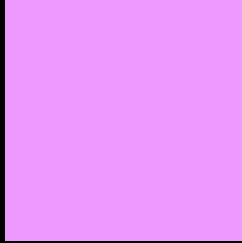
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1796, 0.3032, 0.2258 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

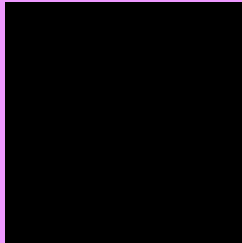
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.1796, 0.3032, 0.2258**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1796, 0.3032, 0.2258.



This preview shows how white text looks on a background with the Yxy color 48.1796, 0.3032, 0.2258.

# 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

48.1796, 0.3032, 0.2258

### Protanopia

48.7684, 0.2494, 0.2438

### Deuteranopia

48.4024, 0.2550, 0.2491



## Tritanopia

48.2473, 0.3557, 0.3142

# Trichromacy



## Original Color

48.1796, 0.3032, 0.2258



## Protanomaly

47.6722, 0.2666, 0.2352



## Deuteranomaly

47.2973, 0.2705, 0.2382



## Tritanomaly

47.9536, 0.3358, 0.2782

# Monochromacy



## Original Color

48.1796, 0.3032, 0.2258



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

49.5647, 0.3089, 0.2856

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1796, 0.3032, 0.2258 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(238, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(238, 153, 255)  
}
```

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(238, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 153, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1796, 0.3032, 0.2258 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(238, 153, 255) }
```

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

```
.border{ border-color:rgb(238, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(238, 153,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1796, 0.3032, 0.2258 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 153, 255) }
```

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

```
.background{ background-color: rgb(238,  
153, 255) }
```

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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