

# Converting Colors

$Y_{xy}(41.2059, 0.4965, 0.2321)$

Have a look what the booklet for  
Yxy(41.2059, 0.4965, 0.2321)  
contains.

<b>Yxy(24.6789, 0.4101, 0.2033)</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(24.6789, 0.4101, 0.2033)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF00B7
RGB	255, 0, 183
RGB Percent	100%, 0%, 72%
CMY	0.0000, 0.9992, 0.2824
CMYK	0.00, 1.00, 0.28, 0.00
HSL	317°, 100%, 50%
HSV	317°, 100%, 100%
XYZ	49.7827, 24.6789, 46.9300
YIQ	97.1070, 93.2370, 110.9730

# Conversions

## Conversions Part 2

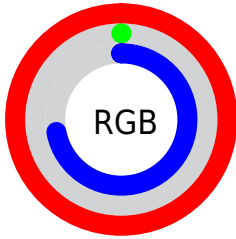
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 0, 183
Decimal	16711863
CIELab	56.76, 89.42, -25.62
CIElCh	57, 93.015, 344.009
Yxy	24.6789, 0.4101, 0.2033
Android (android.graphics.Color)	4294901943 (0xFFFF00B7)
YUV	97.1070, 42.3452, 138.4722
Hunter-Lab	49.6779, 91.9403, -21.2359

# Details

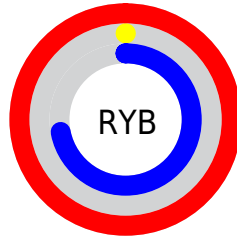
The Yxy color **24.6789, 0.4101, 0.2033** is a dark color, and the websafe version is hex **FF33CC**. The color can be described as middle saturated rose. A complement of this color would be **71.9846, 0.2908, 0.5667**, and the grayscale version is **11.8864, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.9947, 0.3344, 0.2009**, and **12.9492, 0.4251, 0.2115** is the 20% darker color. If you saturate the color by 10%, you get **24.6738, 0.4102, 0.2033**, and if you desaturate by 10%, it is **25.7091, 0.3986, 0.2013**.

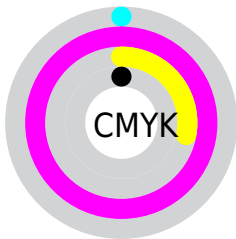
# Distribution



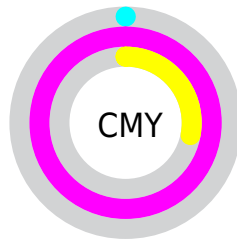
- Red (100%)
- Green (0%)
- Blue (72%)



- Red (100%)
- Yellow (0%)
- Blue (72%)



- Cyan (0%)
- Magenta (100%)
- Yellow (28%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.6789, 0.4101, 0.2033 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 24.6789, 0.4101, 0.2033 by changing the saturation by 10% instead.





 24.6789, 0.4101,  
0.2033


 24.6789, 0.4101,  
0.2033


276.2350, 0.3606,  
0.2647


 15.8380, 0.4225,  
0.1887


 51.1358, 0.3920,  
0.2251


 9.4096, 0.4384,  
0.1706


 69.5206, 0.3853,  
0.2335


 5.0093, 0.4593,  
0.1475


 91.8555, 0.3796,  
0.2406

 2.2527, 0.4880,  
0.1179

 118.5249, 0.3747,  
0.2468

 0.7485, 0.5290,  
0.0790

 149.9131, 0.3704,  
0.2521

 0.0000, 0.6090,  
0.0000

186.4046, 0.3668,


 0.0000, 0.8014,


0.2568


0.0000


228.3838, 0.3635,  
0.2610


 0.0000, 0.0000,  
0.0000


 24.6789, 0.4101,  
0.2033


 24.6789, 0.4101,  
0.2033


 24.6738, 0.4102,  
0.2033

 25.7091, 0.3986,  
0.2013

 27.6916, 0.3868,  
0.2038

 30.9108, 0.3748,  
0.2112

 35.5414, 0.3631,  
0.2230

 41.7299, 0.3521,  
0.2381

■ 49.6043, 0.3420,  
0.2554

■ 59.2794, 0.3330,  
0.2739

■ 70.8598, 0.3252,  
0.2928

■ 84.4422, 0.3184,  
0.3113

# Harmonies

## Analogous

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



24.6789, 0.2529, 0.1517



24.6789, 0.4101, 0.2033



24.6789, 0.5590, 0.2754

# Triad

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



24.6789, 0.4101, 0.2033



24.6789, 0.4266, 0.5613



24.6789, 0.0881, 0.1905

# Complementary

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



24.6789, 0.4101, 0.2033



71.9846, 0.2908, 0.5667

# 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.



24.6789, 0.1097, 0.3195



24.6789, 0.4101, 0.2033



24.6789, 0.2999, 0.6304

# Square

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



24.6789, 0.4101, 0.2033



24.6789, 0.5402, 0.4490



24.6789, 0.1832, 0.5275



24.6789, 0.1021, 0.1388



# Rectangle

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



24.6789, 0.4101, 0.2033



24.6789, 0.6014, 0.3272



24.6789, 0.1832, 0.5275



24.6789, 0.0908, 0.2227

# Sweetspot

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



24.6803, 0.4101, 0.2033



59.2051, 0.3331, 0.2738



8.4574, 0.1648, 0.0682



11.7519, 0.3367, 0.2659



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.



24.6803, 0.4101, 0.2033



24.6763, 0.4102, 0.2033



21.5846, 0.6023, 0.3092



18.2077, 0.3182, 0.3121



12.9208, 0.4084, 0.2023



1.2768, 0.3960, 0.1955



# Inverse Universe

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



24.6803, 0.4101, 0.2033



24.6763, 0.4102, 0.2033



75.4786, 0.2465, 0.4074



18.2077, 0.3182, 0.3121



12.9208, 0.4084, 0.2023



1.2768, 0.3960, 0.1955



# Previews

## White Background



This preview shows how the Yxy color 24.6789, 0.4101, 0.2033 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

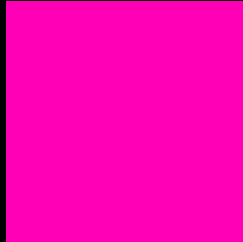
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 24.6789, 0.4101, 0.2033 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 × Fail

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

**Yxy 24.6789, 0.4101, 0.2033**

## Background



This preview shows how black text looks on a background with the Yxy color 24.6789, 0.4101, 0.2033.



This preview shows how white text looks on a background with the Yxy color 24.6789, 0.4101, 0.2033.

# 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

24.6789, 0.4101, 0.2033

### Protanopia

25.7260, 0.1920, 0.1680

### Deuteranopia

25.3366, 0.2772, 0.2717



## Tritanopia

24.9307, 0.5499, 0.3265

# Trichromacy



## Original Color

24.6789, 0.4101, 0.2033



## Protanomaly

17.7296, 0.2312, 0.1453



## Deuteranomaly

19.2157, 0.3221, 0.2103



## Tritanomaly

23.5158, 0.5089, 0.2751

# Monochromacy



## Original Color

24.6789, 0.4101, 0.2033



## Achromatopsia

11.9538, 0.3127, 0.3290



## Achromatomaly

11.8738, 0.3606, 0.2260

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.6789, 0.4101, 0.2033 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, 0, 183)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 183)  
}
```

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, 0, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 24.6789, 0.4101, 0.2033 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, 0, 183) }
```

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

```
.border{ border-color:rgb(255, 0, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 183);  
box-shadow:4px 4px 4px 4px rgb(255, 0,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.6789, 0.4101, 0.2033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 183) }
```

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

```
.background{ background-color: rgb(255, 0,  
183) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor