

# Converting Colors

$Y_{xy}(40.8651, 0.3336, 0.2291)$

Have a look what the booklet for  
Yxy(40.8651, 0.3336, 0.2291)  
contains.

<b>Yxy(40.9792, 0.3336, 0.2292)</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(40.9792, 0.3336, 0.2292)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F582E4
RGB	245, 130, 228
RGB Percent	96%, 51%, 89%
CMY	0.0392, 0.4902, 0.1059
CMYK	0.00, 0.47, 0.07, 0.04
HSL	309°, 85%, 74%
HSV	309°, 47%, 96%
XYZ	59.6451, 40.9792, 78.1680
YIQ	175.5570, 37.0820, 54.8580

# Conversions

## Conversions Part 2

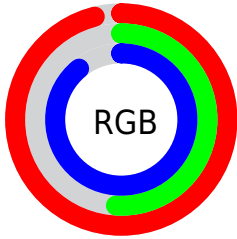
Format	Color
R <sub>Y</sub> B	245, 130, 228
Decimal	16089828
CIE Lab	70.16, 56.69, -30.53
CIE LCh	70, 64.384, 331.695
Yxy	40.9792, 0.3336, 0.2292
Android (android.graphics.Color)	4294279908 (0xFFFF582E4)
YUV	175.5570, 25.8544, 60.9015
Hunter-Lab	64.0150, 54.2887, -27.5879

# Details

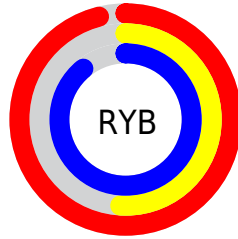
The Yxy color **40.9792, 0.3336, 0.2292** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **72.1633, 0.2976, 0.4557**, and the grayscale version is **43.0233, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.5978, 0.3159, 0.2614**, and **18.5755, 0.3382, 0.2063** is the 20% darker color. If you saturate the color by 10%, you get **35.0218, 0.3392, 0.2111**, and if you desaturate by 10%, it is **48.4960, 0.3283, 0.2495**.

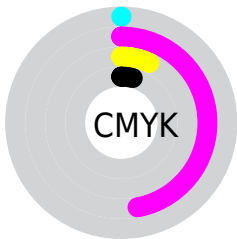
# Distribution



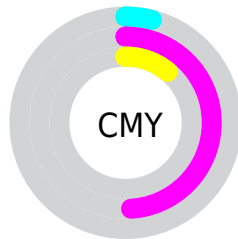
- Red (96%)
- Green (51%)
- Blue (89%)



- Red (96%)
- Yellow (51%)
- Blue (89%)



- Cyan (0%)
- Magenta (47%)
- Yellow (7%)
- Black (4%)



- Cyan (4%)
- Magenta (49%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.9792, 0.3336, 0.2292 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 40.9792, 0.3336, 0.2292 by changing the saturation by 10% instead.





 40.9792, 0.3336,  
0.2292

 40.9792, 0.3336,  
0.2292

350.2337, 0.3249,  
0.2754


 28.3028, 0.3353,  
0.2188


 76.6523, 0.3308,  
0.2452

 18.5541, 0.3372,  
0.2060


 100.4179, 0.3296,  
0.2514

 11.3485, 0.3394,  
0.1900


 128.6486, 0.3286,  
0.2568

 6.3018, 0.3417,  
0.1695

161.7289, 0.3277,  
0.2615

 3.0294, 0.3439,  
0.1427

200.0431, 0.3269,  
0.2656

 1.1471, 0.3446,  
0.1069

243.9758, 0.3262,

 0.0179, 0.3599,

0.2692

0.0042

293.9111, 0.3255,  
0.2725

■ 0.0000, 0.2687,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.9792, 0.3336,  
0.2292

■ 40.9792, 0.3336,  
0.2292

■ 35.0218, 0.3392,  
0.2111

■ 48.4960, 0.3283,  
0.2495

■ 30.5064, 0.3450,  
0.1963


■ 57.6677, 0.3234,  
0.2710


■ 27.3079, 0.3507,  
0.1855


■ 68.5883, 0.3190,  
0.2929


■ 25.2773, 0.3563,  
0.1792


■ 81.3435, 0.3151,  
0.3145


 24.2247, 0.3615,  
0.1774

 96.0133, 0.3117,  
0.3352

 24.0070, 0.3630,  
0.1773

 97.8201, 0.3096,  
0.3341

 98.0493, 0.3075,  
0.3306

 98.1542, 0.3066,  
0.3290

# Harmonies

## Analogous

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



40.9792, 0.2456, 0.1989



40.9792, 0.3336, 0.2292



40.9792, 0.4285, 0.2791

# Triad

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



40.9792, 0.3336, 0.2292



40.9792, 0.4385, 0.4686



40.9792, 0.1634, 0.2775

# Complementary

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



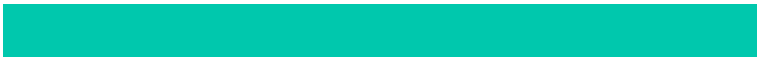
40.9792, 0.3336, 0.2292



72.1633, 0.2976, 0.4557

# 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.



40.9792, 0.2013, 0.3748



40.9792, 0.3336, 0.2292



40.9792, 0.3591, 0.5031

# Square

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



40.9792, 0.3336, 0.2292



40.9792, 0.4893, 0.4061



40.9792, 0.2722, 0.4707



40.9792, 0.1595, 0.2171



# Rectangle

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



40.9792, 0.3336, 0.2292



40.9792, 0.4749, 0.3192



40.9792, 0.2722, 0.4707



40.9792, 0.1721, 0.3066

# Sweetspot

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



40.9811, 0.3336, 0.2292



78.9644, 0.3178, 0.2993



28.6084, 0.2338, 0.1848



16.2853, 0.3187, 0.2946



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.



40.9811, 0.3336, 0.2292



38.8265, 0.3387, 0.2125



38.3645, 0.3928, 0.2838



16.7237, 0.3161, 0.3091



12.9482, 0.3622, 0.1769



1.1492, 0.3562, 0.1736



# Inverse Universe

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



40.9811, 0.3336, 0.2292



38.8265, 0.3387, 0.2125



74.3607, 0.2699, 0.3814



16.7237, 0.3161, 0.3091



12.9482, 0.3622, 0.1769

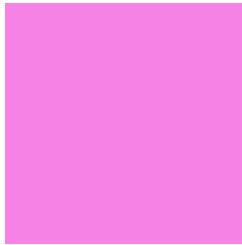


1.1492, 0.3562, 0.1736



# Previews

## White Background



This preview shows how the Yxy color 40.9792, 0.3336, 0.2292 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

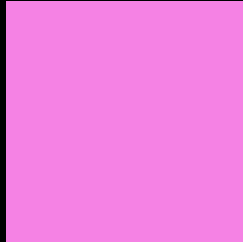
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.9792, 0.3336, 0.2292 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

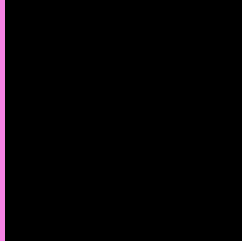
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.9792, 0.3336, 0.2292**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.9792, 0.3336, 0.2292.



This preview shows how white text looks on a background with the Yxy color 40.9792, 0.3336, 0.2292.

# 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

40.9792, 0.3336, 0.2292

### Protanopia

41.4356, 0.2351, 0.2236

### Deuteranopia

41.2778, 0.2674, 0.2620



## Tritanopia

40.9966, 0.3964, 0.3168

# Trichromacy



## Original Color

40.9792, 0.3336, 0.2292



## Protanomaly

39.7386, 0.2637, 0.2228



## Deuteranomaly

40.0310, 0.2883, 0.2460



## Tritanomaly

40.7003, 0.3731, 0.2819

# Monochromacy



## Original Color

40.9792, 0.3336, 0.2292



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

41.1539, 0.3204, 0.2846

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.9792, 0.3336, 0.2292 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(245, 130, 228)` looks like.

```
.text, #text, p{  
    color:rgb(245, 130, 228)  
}
```

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(245, 130, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 130, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 40.9792, 0.3336, 0.2292 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(245, 130, 228) }
```

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

```
.border{ border-color:rgb(245, 130, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 130, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 130, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 130, 228);  
box-shadow:4px 4px 4px 4px rgb(245, 130,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.9792, 0.3336, 0.2292 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 130, 228) }
```

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

```
.background{ background-color: rgb(245,  
130, 228) }
```

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