

# Converting Colors

$Y_{xy}(40.8537, 0.3205, 0.2348)$

Have a look what the booklet for  
Yxy(40.8537, 0.3205, 0.2348)  
contains.

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# Color

**Yxy(40.8343, 0.3200, 0.2344)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E68BE3
RGB	230, 139, 227
RGB Percent	90%, 55%, 89%
CMY	0.0978, 0.4550, 0.1097
CMYK	0.00, 0.40, 0.01, 0.10
HSL	302°, 65%, 72%
HSV	302°, 40%, 90%
XYZ	55.7465, 40.8343, 77.6270
YIQ	176.2410, 25.9880, 46.6600

# Conversions

## Conversions Part 2

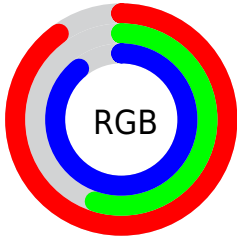
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 139, 227
Decimal	15109091
CIE Lab	70.06, 47.59, -30.29
CIE LCh	70, 56.408, 327.522
Yxy	40.8343, 0.3200, 0.2344
Android (android.graphics.Color)	4293299171 (0xFFE68BE3)
YUV	176.2410, 25.0242, 47.1466
Hunter-Lab	63.9017, 43.8915, -27.2935

# Details

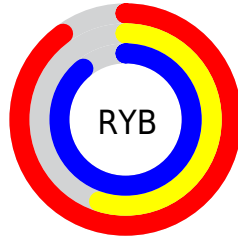
The Yxy color **40.8343, 0.3200, 0.2344** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **64.0669, 0.3054, 0.4463**, and the grayscale version is **43.4052, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.0636, 0.3155, 0.2693**, and **18.4801, 0.3208, 0.2124** is the 20% darker color. If you saturate the color by 10%, you get **34.8197, 0.3220, 0.2129**, and if you desaturate by 10%, it is **48.2543, 0.3180, 0.2577**.

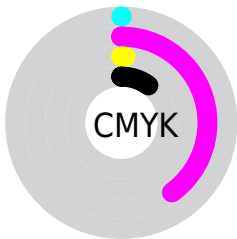
# Distribution



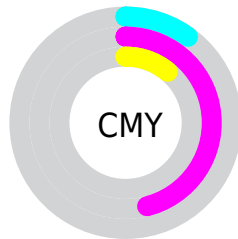
- Red (90%)
- Green (55%)
- Blue (89%)



- Red (90%)
- Yellow (55%)
- Blue (89%)



- Cyan (0%)
- Magenta (40%)
- Yellow (1%)
- Black (10%)




- Cyan (10%)
- Magenta (46%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.8343, 0.3200, 0.2344 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 40.8343, 0.3200, 0.2344 by changing the saturation by 10% instead.





 40.8343, 0.3200,  
0.2344


 40.8343, 0.3200,  
0.2344


349.6276, 0.3178,  
0.2786

 28.1896, 0.3201,  
0.2243


 76.4323, 0.3195,  
0.2498

 18.4687, 0.3201,  
0.2119


 100.1544, 0.3192,  
0.2557

 11.2870, 0.3198,  
0.1962


 128.3378, 0.3190,  
0.2609

 6.2602, 0.3187,  
0.1760

161.3668, 0.3187,  
0.2654

 3.0039, 0.3161,  
0.1493

199.6260, 0.3185,  
0.2693

 1.1338, 0.3098,  
0.1130

243.4995, 0.3182,

 0.0066, 0.3131,

0.2728

0.0017

293.3719, 0.3180,  
0.2758

0.0000, 0.1118,  
0.0000

0.0000, 0.0000,  
0.0000

40.8343, 0.3200,  
0.2344

40.8343, 0.3200,  
0.2344

34.8197, 0.3220,  
0.2129

48.2543, 0.3180,  
0.2577

30.1164, 0.3238,  
0.1942


57.1552, 0.3161,  
0.2820

26.6275, 0.3256,  
0.1792


67.6136, 0.3143,  
0.3063


24.2401, 0.3271,  
0.1683

79.6993, 0.3127,  
0.3299


 22.8206, 0.3284,  
0.1618

 93.4777, 0.3111,  
0.3525


 22.1486, 0.3295,  
0.1590

 94.1582, 0.3106,  
0.3527

 22.1267, 0.3296,  
0.1589

 94.2019, 0.3102,  
0.3519

 94.2458, 0.3098,  
0.3511

 94.2899, 0.3093,  
0.3503

# Harmonies

## Analogous

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



40.8343, 0.2444, 0.2097



40.8343, 0.3200, 0.2344



40.8343, 0.4040, 0.2781

# Triad

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



40.8343, 0.3200, 0.2344



40.8343, 0.4349, 0.4486



40.8343, 0.1818, 0.2954

# Complementary

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



40.8343, 0.3200, 0.2344



64.0669, 0.3054, 0.4463

# 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.



40.8343, 0.2216, 0.3823



40.8343, 0.3200, 0.2344



40.8343, 0.3671, 0.4805

# Square

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



40.8343, 0.3200, 0.2344



40.8343, 0.4728, 0.3931



40.8343, 0.2890, 0.4590



40.8343, 0.1734, 0.2356



# Rectangle

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



40.8343, 0.3200, 0.2344



40.8343, 0.4483, 0.3142



40.8343, 0.2890, 0.4590



40.8343, 0.1916, 0.3225

# Sweetspot

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



40.8361, 0.3200, 0.2344



81.9409, 0.3148, 0.3003



29.9241, 0.2417, 0.2086



17.1568, 0.3150, 0.2971



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.



40.8361, 0.3200, 0.2344



44.8850, 0.3217, 0.2156



38.6451, 0.3651, 0.2806



14.6065, 0.3143, 0.3066



12.5233, 0.3294, 0.1588



0.9281, 0.3281, 0.1581



# Inverse Universe

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



40.8361, 0.3200, 0.2344



44.8850, 0.3217, 0.2156



65.7250, 0.2803, 0.3839



14.6065, 0.3143, 0.3066



12.5233, 0.3294, 0.1588



0.9281, 0.3281, 0.1581



# Previews

## White Background



This preview shows how the Yxy color 40.8343, 0.3200, 0.2344 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

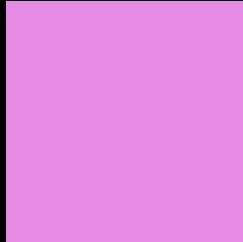
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.8343, 0.3200, 0.2344 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

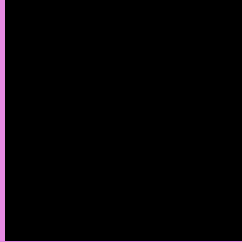
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 40.8343, 0.3200, 0.2344**

## Background



This preview shows how black text looks on a background with the Yxy color 40.8343, 0.3200, 0.2344.



This preview shows how white text looks on a background with the Yxy color 40.8343, 0.3200, 0.2344.

# 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

40.8343, 0.3200, 0.2344

### Protanopia

41.2978, 0.2388, 0.2287

### Deuteranopia

41.3312, 0.2668, 0.2608



## Tritanopia

40.6664, 0.3720, 0.3149

# Trichromacy



## Original Color

40.8343, 0.3200, 0.2344



## Protanomaly

40.0946, 0.2629, 0.2284



## Deuteranomaly

40.4003, 0.2842, 0.2487



## Tritanomaly

40.4628, 0.3526, 0.2828

# Monochromacy



## Original Color

40.8343, 0.3200, 0.2344



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

41.8703, 0.3155, 0.2890

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.8343, 0.3200, 0.2344 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(230, 139, 227)` looks like.

```
.text, #text, p{  
    color:rgb(230, 139, 227)  
}
```

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(230, 139, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 139, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 40.8343, 0.3200, 0.2344 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(230, 139, 227) }
```

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

```
.border{ border-color:rgb(230, 139, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 139, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 139, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 139, 227);  
box-shadow:4px 4px 4px 4px rgb(230, 139,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.8343, 0.3200, 0.2344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 139, 227) }
```

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

```
.background{ background-color: rgb(230,  
139, 227) }
```

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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