

# Converting Colors

$Y_{xy}(19.2525, 0.4540, 0.2342)$

Have a look what the booklet for  
Yxy(19.2525, 0.4540, 0.2342)  
contains.

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**Color**

**Yxy(19.2318, 0.4529, 0.2337)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E51A8A
RGB	229, 26, 138
RGB Percent	90%, 10%, 54%
CMY	0.1019, 0.8980, 0.4588
CMYK	0.00, 0.89, 0.40, 0.10
HSL	327°, 80%, 50%
HSV	327°, 89%, 90%
XYZ	37.2704, 19.2318, 25.7905
YIQ	99.4650, 85.0360, 77.8680

# Conversions

## Conversions Part 2

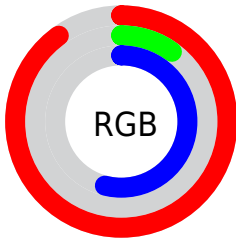
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	229, 26, 138
Decimal	15014538
CIE <sub>Lab</sub>	50.96, 77.36, -8.30
CIE <sub>LCh</sub>	51, 77.805, 353.875
Yxy	19.2318, 0.4529, 0.2337
Android (android.graphics.Color)	4293204618 (0xFFE51A8A)
YUV	99.4650, 18.9978, 113.6022
Hunter-Lab	43.8541, 74.9575, -4.1705

# Details

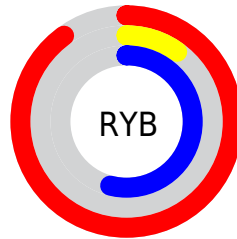
The Yxy color **19.2318, 0.4529, 0.2337** is a dark color, and the websafe version is hex **FF3399**. The color can be described as dark washed rose. A complement of this color would be **57.5450, 0.2742, 0.4983**, and the grayscale version is **12.5384, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.3289, 0.3877, 0.2407**, and **9.0294, 0.4844, 0.2442** is the 20% darker color. If you saturate the color by 10%, you get **18.2775, 0.4739, 0.2391**, and if you desaturate by 10%, it is **20.9947, 0.4313, 0.2335**.

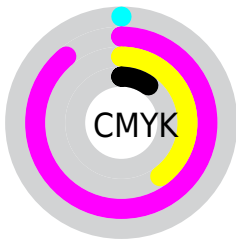
# Distribution



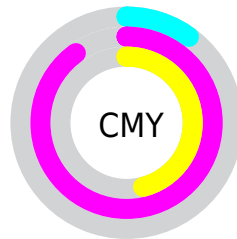
- Red (90%)
- Green (10%)
- Blue (54%)



- Red (90%)
- Yellow (10%)
- Blue (54%)



- Cyan (0%)
- Magenta (89%)
- Yellow (40%)
- Black (10%)




- Cyan (10%)
- Magenta (90%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.2318, 0.4529, 0.2337 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 19.2318, 0.4529, 0.2337 by changing the saturation by 10% instead.





 19.2318, 0.4529,  
0.2337


 19.2318, 0.4529,  
0.2337


247.7255, 0.3750,  
0.2851


 11.8379, 0.4750,  
0.2197


 42.1254, 0.4226,  
0.2532

 6.6334, 0.5051,  
0.2012


 58.3939, 0.4118,  
0.2603


 3.2339, 0.5478,  
0.1758

 78.3894, 0.4030,  
0.2662


 1.2550, 0.6122,  
0.1394

 102.4963, 0.3956,  
0.2712

 0.1060, 0.7636,  
0.0312

 131.0989, 0.3892,  
0.2754

 0.0000, 1.0000,  
0.0000

 164.5817, 0.3838,

 0.0000, 0.0000,

0.2791

0.0000

203.3291, 0.3791,  
0.2823

■ 19.2318, 0.4529,  
0.2337

■ 19.2318, 0.4529,  
0.2337

■ 18.2775, 0.4739,  
0.2391

■ 20.9947, 0.4313,  
0.2335

■ 18.1734, 0.4767,  
0.2400

■ 23.7566, 0.4100,  
0.2385

■ 27.6492, 0.3898,  
0.2476

■ 32.7830, 0.3715,  
0.2597

■ 39.2552, 0.3554,  
0.2736

■ 47.1534, 0.3415,  
0.2883

■ 56.5576, 0.3298,  
0.3030

■ 67.5418, 0.3199,  
0.3173

■ 80.1751, 0.3117,  
0.3308

# Harmonies

## Analogous

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



19.2318, 0.3018, 0.1758



19.2318, 0.4529, 0.2337



19.2318, 0.5648, 0.3068

# Triad

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



19.2318, 0.4529, 0.2337



19.2318, 0.3877, 0.5768



19.2318, 0.1014, 0.1793

# Complementary

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



19.2318, 0.4529, 0.2337



57.5450, 0.2742, 0.4983

# 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.



19.2318, 0.1113, 0.2739



19.2318, 0.4529, 0.2337



19.2318, 0.2687, 0.5906

# Square

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



19.2318, 0.4529, 0.2337



19.2318, 0.4992, 0.4824



19.2318, 0.1662, 0.4458



19.2318, 0.1254, 0.1440



# Rectangle

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



19.2318, 0.4529, 0.2337



19.2318, 0.5816, 0.3592



19.2318, 0.1662, 0.4458



19.2318, 0.1007, 0.2026

# Sweetspot

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



19.2329, 0.4529, 0.2337



61.8300, 0.3397, 0.2905



9.9728, 0.2017, 0.0938



12.4270, 0.3441, 0.2854



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.



19.2329, 0.4529, 0.2337



23.1733, 0.4778, 0.2406



17.5482, 0.6097, 0.3237



14.5004, 0.3206, 0.3161



10.4150, 0.4736, 0.2383



0.7883, 0.4452, 0.2226



# Inverse Universe

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



19.2329, 0.4529, 0.2337



23.1733, 0.4778, 0.2406



61.1906, 0.2314, 0.3472



14.5004, 0.3206, 0.3161



10.4150, 0.4736, 0.2383



0.7883, 0.4452, 0.2226



# Previews

## White Background



This preview shows how the Yxy color 19.2318, 0.4529, 0.2337 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

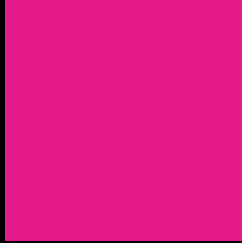
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.2318, 0.4529, 0.2337 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 19.2318, 0.4529, 0.2337**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.2318, 0.4529, 0.2337.



This preview shows how white text looks on a background with the Yxy color 19.2318, 0.4529, 0.2337.

# 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

19.2318, 0.4529, 0.2337

### Protanopia

19.7528, 0.2224, 0.2074

### Deuteranopia

19.5775, 0.3172, 0.3128



## Tritanopia

19.3121, 0.5632, 0.3281

# Trichromacy



## Original Color

19.2318, 0.4529, 0.2337



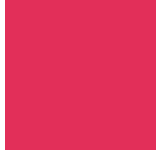
## Protanomaly

15.5512, 0.2797, 0.1951



## Deuteranomaly

16.3784, 0.3678, 0.2580



## Tritanomaly

18.9231, 0.5307, 0.2938

# Monochromacy



## Original Color

19.2318, 0.4529, 0.2337



## Achromatopsia

12.4772, 0.3127, 0.3290



## Achromatomaly

11.9380, 0.3720, 0.2589

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.2318, 0.4529, 0.2337 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(229, 26, 138)` looks like.

```
.text, #text, p{  
    color:rgb(229, 26, 138)  
}
```

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(229, 26, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 26, 138) }
```

## Border

The CSS property to change the border of an element to Yxy 19.2318, 0.4529, 0.2337 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(229, 26, 138) }
```

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

```
.border{ border-color:rgb(229, 26, 138) }
```

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

Here you see how a box with a 4 pixel rgb(229, 26, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 26, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 26, 138);  
box-shadow:4px 4px 4px 4px rgb(229, 26,  
138) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.2318, 0.4529, 0.2337 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 26, 138) }
```

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

```
.background{ background-color: rgb(229, 26,  
138) }
```

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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