

# Converting Colors

$Y_{xy}(29.6762, 0.3252, 0.1964)$

Have a look what the booklet for  
Yxy(29.6762, 0.3252, 0.1964)  
contains.

<b>Yxy(29.5966, 0.3253, 0.1961)</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(29.5966, 0.3253, 0.1961)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E45DDE
RGB	228, 93, 222
RGB Percent	89%, 36%, 87%
CMY	0.1058, 0.6353, 0.1294
CMYK	0.00, 0.59, 0.03, 0.11
HSL	303°, 71%, 63%
HSV	303°, 59%, 89%
XYZ	49.0962, 29.5966, 72.2332
YIQ	148.0710, 39.0510, 68.7390

# Conversions

## Conversions Part 2

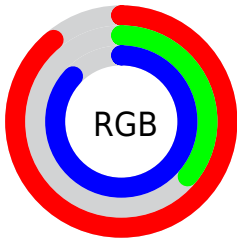
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	228, 93, 222
Decimal	14966238
CIE <sub>Lab</sub>	61.30, 67.97, -41.15
CIE <sub>LCh</sub>	61, 79.455, 328.811
Yxy	29.5966, 0.3253, 0.1961
Android (android.graphics.Color)	4293156318 (0xFFE45DDE)
YUV	148.0710, 36.4470, 70.0977
Hunter-Lab	54.4028, 65.8841, -40.6403

# Details

The Yxy color **29.5966, 0.3253, 0.1961** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **58.7203, 0.3013, 0.5126**, and the grayscale version is **29.4789, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.2927, 0.3175, 0.2275**, and **12.0187, 0.3249, 0.1650** is the 20% darker color. If you saturate the color by 10%, you get **26.1204, 0.3274, 0.1810**, and if you desaturate by 10%, it is **34.2687, 0.3231, 0.2148**.

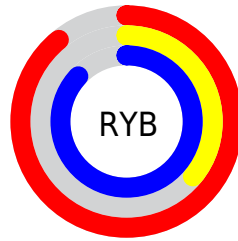
# Distribution



Red (89%)

Green (36%)

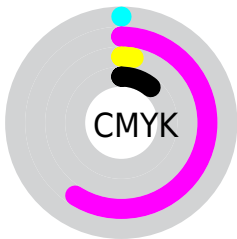
Blue (87%)



Red (89%)

Yellow (36%)

Blue (87%)

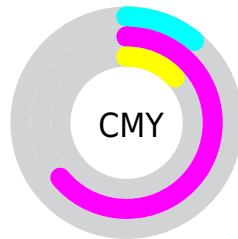


Cyan (0%)

Magenta (59%)

Yellow (3%)

Black (11%)



Cyan (11%)

Magenta (64%)


Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.5966, 0.3253, 0.1961 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 29.5966, 0.3253, 0.1961 by changing the saturation by 10% instead.





 29.5966, 0.3253,  
0.1961


 29.5966, 0.3253,  
0.1961


300.0196, 0.3218,  
0.2584


 19.5326, 0.3253,  
0.1820


 59.0236, 0.3247,  
0.2177

 12.0557, 0.3249,  
0.1649


 79.1555, 0.3242,  
0.2261

 6.7817, 0.3237,  
0.1437

 103.4120, 0.3238,  
0.2334

 3.3259, 0.3206,  
0.1171

 132.1777, 0.3234,  
0.2397

 1.3042, 0.3136,  
0.0841

165.8369, 0.3230,  
0.2452

 0.1444, 0.3053,  
0.0200

204.7740, 0.3226,

 0.0000, 0.2606,

0.2501

0.0000


249.3734, 0.3222,  
0.2545

 0.0000, 0.0000,  
0.0000

 29.5966, 0.3253,  
0.1961


 29.5966, 0.3253,  
0.1961

 26.1204, 0.3274,  
0.1810


 34.2687, 0.3231,  
0.2148

 23.7263, 0.3293,  
0.1701

 40.2287, 0.3208,  
0.2362

 22.2859, 0.3310,  
0.1635


 47.5644, 0.3186,  
0.2594


 21.5935, 0.3324,  
0.1607


 56.3548, 0.3164,  
0.2834


 21.5504, 0.3325,  
0.1606

 66.6728, 0.3144,  
0.3074

 78.5865, 0.3126,  
0.3308

 92.1599, 0.3109,  
0.3531

 93.7355, 0.3102,  
0.3544

 93.7927, 0.3096,  
0.3533

# Harmonies

## Analogous

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



29.5966, 0.2139, 0.1624



29.5966, 0.3253, 0.1961



29.5966, 0.4588, 0.2541

# Triad

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



29.5966, 0.3253, 0.1961



29.5966, 0.4737, 0.4911



29.5966, 0.1240, 0.2636

# Complementary

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



29.5966, 0.3253, 0.1961



58.7203, 0.3013, 0.5126

# 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.



29.5966, 0.1701, 0.4051



29.5966, 0.3253, 0.1961



29.5966, 0.3707, 0.5625

# Square

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



29.5966, 0.3253, 0.1961



29.5966, 0.5444, 0.4039



29.5966, 0.2607, 0.5437



29.5966, 0.1188, 0.1856



# Rectangle

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



29.5966, 0.3253, 0.1961



29.5966, 0.5265, 0.3008



29.5966, 0.2607, 0.5437



29.5966, 0.1343, 0.3043

# Sweetspot

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



29.5980, 0.3253, 0.1961



73.9992, 0.3162, 0.2861



15.9991, 0.2006, 0.1401



15.0726, 0.3168, 0.2790



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.



29.5980, 0.3253, 0.1961



32.8628, 0.3278, 0.1782



26.7243, 0.4068, 0.2594



14.6036, 0.3145, 0.3069



12.4476, 0.3323, 0.1604



0.9233, 0.3305, 0.1594



# Inverse Universe

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



29.5980, 0.3253, 0.1961



32.8628, 0.3278, 0.1782



60.5361, 0.2697, 0.4180



14.6036, 0.3145, 0.3069



12.4476, 0.3323, 0.1604



0.9233, 0.3305, 0.1594



# Previews

## White Background



This preview shows how the Yxy color 29.5966, 0.3253, 0.1961 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

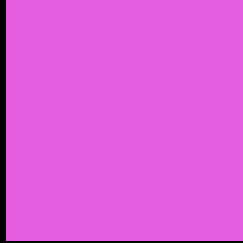
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.5966, 0.3253, 0.1961 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

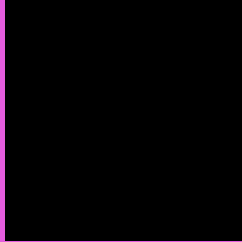
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.5966, 0.3253, 0.1961**

## Background



This preview shows how black text looks on a background with the Yxy color 29.5966, 0.3253, 0.1961.



This preview shows how white text looks on a background with the Yxy color 29.5966, 0.3253, 0.1961.

# 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

29.5966, 0.3253, 0.1961

### Protanopia

30.1234, 0.2055, 0.1858

### Deuteranopia

29.8825, 0.2399, 0.2342



## Tritanopia

29.4777, 0.4233, 0.3196

# Trichromacy



## Original Color

29.5966, 0.3253, 0.1961



## Protanomaly

27.5038, 0.2347, 0.1819



## Deuteranomaly

27.7137, 0.2650, 0.2117



## Tritanomaly

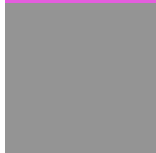
29.1326, 0.3858, 0.2681

# Monochromacy



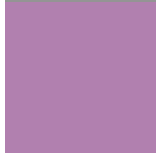
## Original Color

29.5966, 0.3253, 0.1961



## Achromatopsia

29.6138, 0.3127, 0.3290



## Achromatomaly

27.8806, 0.3180, 0.2639

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.5966, 0.3253, 0.1961 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(228, 93, 222)` looks like.

```
.text, #text, p{  
    color:rgb(228, 93, 222)  
}
```

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(228, 93, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 93, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 29.5966, 0.3253, 0.1961 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(228, 93, 222) }
```

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

```
.border{ border-color:rgb(228, 93, 222) }
```

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

Here you see how a box with a 4 pixel rgb(228, 93, 222) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 93, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 93, 222);  
box-shadow:4px 4px 4px 4px rgb(228, 93,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.5966, 0.3253, 0.1961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 93, 222) }
```

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

```
.background{ background-color: rgb(228, 93,  
222) }
```

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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