

# Converting Colors

$Y_{xy}(27.9051, 0.2624, 0.1979)$

Have a look what the booklet for  
Yxy(27.9051, 0.2624, 0.1979)  
contains.

<b>Yxy(28.0368, 0.2626, 0.1985)</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(28.0368, 0.2626, 0.1985)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A87BE3
RGB	168, 123, 227
RGB Percent	66%, 48%, 89%
CMY	0.3413, 0.5176, 0.1099
CMYK	0.26, 0.46, 0.00, 0.11
HSL	266°, 65%, 69%
HSV	266°, 46%, 89%
XYZ	37.0905, 28.0368, 76.1160
YIQ	148.3110, -6.5640, 41.8840

# Conversions

## Conversions Part 2

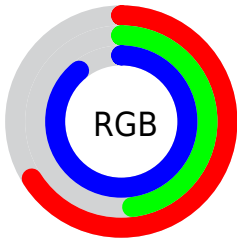
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 123, 227
Decimal	11041763
CIE <sub>Lab</sub>	59.92, 38.13, -46.60
CIE <sub>LCh</sub>	60, 60.213, 309.291
Yxy	28.0368, 0.2626, 0.1985
Android (android.graphics.Color)	4289231843 (0xFFA87BE3)
YUV	148.3110, 38.7937, 17.2673
Hunter-Lab	52.9498, 32.3743, -48.1653

# Details

The Yxy color **28.0368, 0.2626, 0.1985** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **66.3064, 0.3459, 0.4556**, and the grayscale version is **29.5884, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.2782, 0.2930, 0.2461**, and **11.2161, 0.2448, 0.1660** is the 20% darker color. If you saturate the color by 10%, you get **21.6989, 0.2483, 0.1684**, and if you desaturate by 10%, it is **35.8223, 0.2760, 0.2293**.

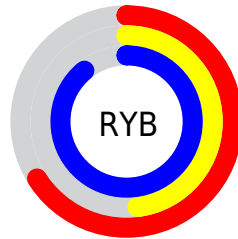
# Distribution



Red (66%)

Green (48%)

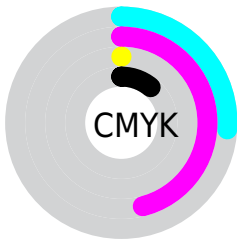
Blue (89%)



Red (66%)

Yellow (48%)

Blue (89%)

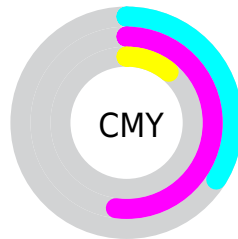


Cyan (26%)

Magenta (46%)

Yellow (0%)

Black (11%)



Cyan (34%)

Magenta (52%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.0368, 0.2626, 0.1985 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 28.0368, 0.2626, 0.1985 by changing the saturation by 10% instead.





 28.0368, 0.2626,  
0.1985


 28.0368, 0.2626,  
0.1985


292.6427, 0.2905,  
0.2616

 18.3534, 0.2550,  
0.1839


 56.5432, 0.2733,  
0.2207

 11.2040, 0.2449,  
0.1658


 76.1350, 0.2772,  
0.2292

 6.2042, 0.2311,  
0.1433


 99.7983, 0.2804,  
0.2366

 2.9697, 0.2115,  
0.1149

127.9177, 0.2831,  
0.2429

 1.1159, 0.1824,  
0.0795

160.8774, 0.2853,  
0.2485

 0.0000, 0.1434,  
0.0000

199.0619, 0.2873,

 0.0000, 0.0000,

0.2534

0.0000

242.8555, 0.2890,  
0.2577

■ 28.0368, 0.2626,  
0.1985

■ 28.0368, 0.2626,  
0.1985

■ 21.6989, 0.2483,  
0.1684

■ 35.8223, 0.2760,  
0.2293

■ 16.7099, 0.2334,  
0.1406

■ 45.1389, 0.2881,  
0.2594

■ 12.9633, 0.2188,  
0.1166

■ 56.0672, 0.2987,  
0.2881

■ 10.3341, 0.2052,  
0.0980

■ 68.6813, 0.3080,  
0.3146

■ 8.6691, 0.1932,  
0.0853

■ 83.0505, 0.3159,  
0.3389

■ 8.1506, 0.1886,  
0.0813

■ 96.5263, 0.3229,  
0.3567

■ 98.3250, 0.3292,  
0.3562

# Harmonies

## Analogous

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



28.0368, 0.1927, 0.1857



28.0368, 0.2626, 0.1985



28.0368, 0.3608, 0.2357

# Triad

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



28.0368, 0.2626, 0.1985



28.0368, 0.4887, 0.4256



28.0368, 0.1815, 0.3483

# Complementary

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



28.0368, 0.2626, 0.1985



66.3064, 0.3459, 0.4556

# 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.



28.0368, 0.2476, 0.4590



28.0368, 0.2626, 0.1985



28.0368, 0.4245, 0.4889

# Square

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



28.0368, 0.2626, 0.1985



28.0368, 0.5053, 0.3565



28.0368, 0.3368, 0.5138



28.0368, 0.1520, 0.2536



# Rectangle

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



28.0368, 0.2626, 0.1985



28.0368, 0.4281, 0.2714



28.0368, 0.3368, 0.5138



28.0368, 0.1997, 0.3866

# Sweetspot

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



28.0379, 0.2626, 0.1985



75.6574, 0.3004, 0.2928



43.8987, 0.2413, 0.2709



15.4757, 0.2983, 0.2868



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.



28.0379, 0.2626, 0.1985



28.5851, 0.2489, 0.1697



34.6700, 0.3096, 0.2149



14.1904, 0.3048, 0.3052



4.8203, 0.1901, 0.0821



0.4102, 0.2065, 0.0911



# Inverse Universe

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



33.8767, 0.3648, 0.2618



37.3752, 0.3809, 0.2493



61.2386, 0.3112, 0.4704



14.5044, 0.3204, 0.3157



10.4698, 0.4670, 0.2346

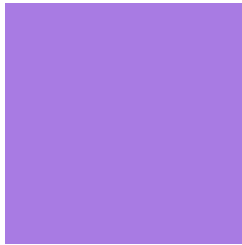


0.7922, 0.4398, 0.2197



# Previews

## White Background



This preview shows how the Yxy color 28.0368, 0.2626, 0.1985 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

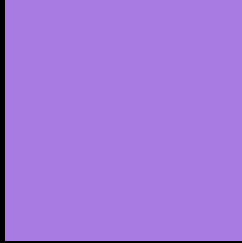
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.0368, 0.2626, 0.1985 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

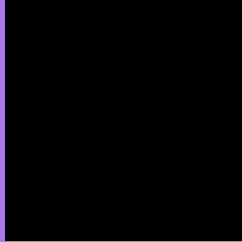
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.0368, 0.2626, 0.1985**

## Background



This preview shows how black text looks on a background with the Yxy color 28.0368, 0.2626, 0.1985.



This preview shows how white text looks on a background with the Yxy color 28.0368, 0.2626, 0.1985.

# 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

28.0368, 0.2626, 0.1985

### Protanopia

28.2875, 0.2100, 0.1912

### Deuteranopia

28.2775, 0.2221, 0.2156



## Tritanopia

27.8606, 0.3167, 0.3119

# Trichromacy



**Original Color**

28.0368, 0.2626, 0.1985

**Protanomaly**

27.5246, 0.2248, 0.1918

**Deuteranomaly**

27.5793, 0.2344, 0.2075

**Tritanomaly**

27.6758, 0.2949, 0.2636

# Monochromacy



**Original Color**

28.0368, 0.2626, 0.1985

**Achromatopsia**

29.6138, 0.3127, 0.3290

**Achromatomaly**

28.6081, 0.2928, 0.2730

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.0368, 0.2626, 0.1985 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(168, 123, 227)` looks like.

```
.text, #text, p{  
    color:rgb(168, 123, 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(168, 123, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 123, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 28.0368, 0.2626, 0.1985 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(168, 123, 227) }
```

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

```
.border{ border-color:rgb(168, 123, 227) }
```

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

Here you see how a box with a 4 pixel rgb(168, 123, 227) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 123, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 123, 227);  
box-shadow:4px 4px 4px 4px rgb(168, 123,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.0368, 0.2626, 0.1985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 123, 227) }
```

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

```
.background{ background-color: rgb(168,  
123, 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](#).

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