

Converting Colors

$Y_{xy}(12.7313, 0.2697, 0.1675)$

Have a look what the booklet for
Yxy(12.7313, 0.2697, 0.1675)
contains.

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Color

Yxy(12.7118, 0.2689, 0.1669)

Conversions

Conversions Part 1

Format	Color
Hex	8A44B1
RGB	138, 68, 177
RGB Percent	54%, 27%, 69%
CMY	0.4589, 0.7332, 0.3059
CMYK	0.22, 0.62, 0.00, 0.31
HSL	279°, 44%, 48%
HSV	279°, 62%, 69%
XYZ	20.4805, 12.7118, 42.9718
YIQ	101.3560, 6.7310, 48.7390

Conversions

Conversions Part 2

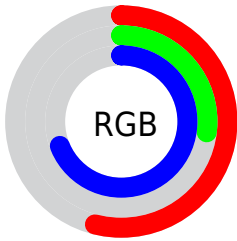
Format	Color
R_{YB}	138, 68, 177
Decimal	9061553
CIE _{Lab}	42.33, 48.35, -46.14
CIE _{LCh}	42, 66.836, 316.342
Yxy	12.7118, 0.2689, 0.1669
Android (android.graphics.Color)	4287251633 (0xFF8A44B1)
YUV	101.3560, 37.2925, 32.1368
Hunter-Lab	35.6536, 40.1421, -46.5023




Details

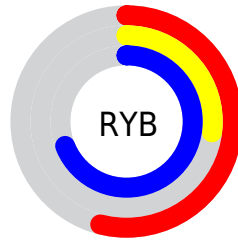
The Yxy color **12.7118, 0.2689, 0.1669** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **34.9936, 0.3317, 0.5082**, and the grayscale version is **13.0124, 0.3127, 0.3290**.




A 20% lighter version of the original color is **30.7855, 0.2814, 0.1984**, and **3.6279, 0.2443, 0.1192** is the 20% darker color. If you saturate the color by 10%, you get **10.3592, 0.2593, 0.1448**, and if you desaturate by 10%, it is **15.7433, 0.2781, 0.1920**.

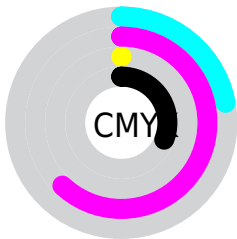
Distribution







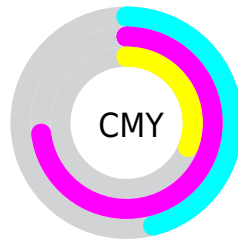
-  Red (54%)
-  Green (27%)
-  Blue (69%)






-  Red (54%)
-  Yellow (27%)
-  Blue (69%)



-  Cyan (22%)
-  Magenta (62%)
-  Yellow (0%)
-  Black (31%)





-  Cyan (46%)
-  Magenta (73%)
-  Yellow (31%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7118, 0.2689, 0.1669 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 12.7118, 0.2689, 0.1669 by changing the saturation by 10% instead.


 12.7118, 0.2689,
0.1669


 12.7118, 0.2689,
0.1669


209.0623, 0.2977,
0.2517


 7.2304, 0.2591,
0.1457


 30.7850, 0.2812,
0.1980


 3.6066, 0.2448,
0.1192


 44.1457, 0.2853,
0.2097


 1.4560, 0.2230,
0.0862

 60.9015, 0.2885,
0.2195

 0.2575, 0.1910,
0.0313

 81.4369, 0.2910,
0.2278

 0.0000, 0.1101,
0.0000

 106.1363, 0.2932,
0.2350

 0.0000, 0.0000,
0.0000

135.3840, 0.2949,

0.2413

169.5646, 0.2964,
0.2468

■ 12.7118, 0.2689,
0.1669

■ 12.7118, 0.2689,
0.1669

■ 10.3592, 0.2593,
0.1448

■ 15.7433, 0.2781,
0.1920

■ 8.6232, 0.2497,
0.1269

■ 19.5056, 0.2867,
0.2190

■ 7.4323, 0.2404,
0.1137

■ 24.0468, 0.2944,
0.2467

■ 6.7255, 0.2329,
0.1056

■ 29.4108, 0.3012,
0.2741

■ 35.6378, 0.3070,
0.3005

■ 42.7657, 0.3120,
0.3253

■ 50.8298, 0.3162,
0.3483

■ 59.8635, 0.3196,
0.3693

■ 69.8988, 0.3224,
0.3885

Harmonies

Analogous

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



12.7118, 0.1695, 0.1436



12.7118, 0.2689, 0.1669



12.7118, 0.4135, 0.2183

Triad

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



12.7118, 0.2689, 0.1669



12.7118, 0.5221, 0.4576



12.7118, 0.1222, 0.3112

Complementary

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



12.7118, 0.2689, 0.1669



34.9936, 0.3317, 0.5082

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.



12.7118, 0.1901, 0.4902



12.7118, 0.2689, 0.1669



12.7118, 0.4179, 0.5551

Square

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



12.7118, 0.2689, 0.1669



12.7118, 0.5776, 0.3666



12.7118, 0.2993, 0.5976



12.7118, 0.1024, 0.1979

Rectangle

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



12.7118, 0.2689, 0.1669



12.7118, 0.5072, 0.2641



12.7118, 0.2993, 0.5976



12.7118, 0.1389, 0.3669

Sweetspot

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



12.7123, 0.2689, 0.1669



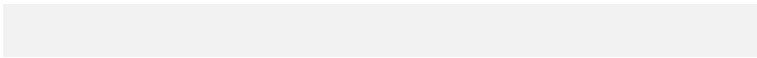
56.1350, 0.3032, 0.2828



15.1260, 0.2105, 0.2030



11.5074, 0.3014, 0.2752



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.7123, 0.2689, 0.1669



17.2808, 0.2558, 0.1377



16.1104, 0.3389, 0.2040



8.4915, 0.3082, 0.3062



4.9076, 0.2338, 0.1062



0.1858, 0.2587, 0.1199

Inverse Universe

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



14.5476, 0.4318, 0.2748



21.3059, 0.4754, 0.2702



33.2939, 0.2958, 0.5012



8.5539, 0.3233, 0.3209



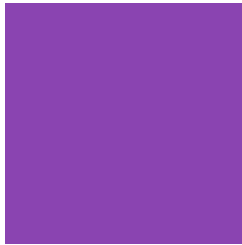
7.0463, 0.5509, 0.2808



0.2331, 0.4732, 0.2380

Previews

White Background



This preview shows how the Yxy color 12.7118, 0.2689, 0.1669 looks on a white background.

Color Contrast Check

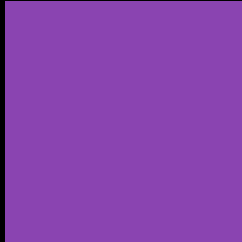
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 12.7118, 0.2689, 0.1669 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

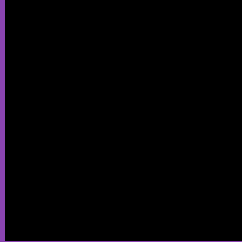
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7118, 0.2689, 0.1669

Background



This preview shows how black text looks on a background with the Yxy color 12.7118, 0.2689, 0.1669.



This preview shows how white text looks on a background with the Yxy color 12.7118, 0.2689, 0.1669.

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

12.7118, 0.2689, 0.1669

Protanopia

13.0056, 0.1742, 0.1469

Deuteranopia

12.9006, 0.1996, 0.1940



Tritanopia

12.7240, 0.3567, 0.3151

Trichromacy



Original Color

12.7118, 0.2689, 0.1669



Protanomaly

11.2738, 0.1839, 0.1431



Deuteranomaly

11.9112, 0.2150, 0.1765



Tritanomaly

12.4646, 0.3211, 0.2482

Monochromacy



Original Color

12.7118, 0.2689, 0.1669



Achromatopsia

13.0136, 0.3127, 0.3290



Achromatomaly

12.3071, 0.2944, 0.2503

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7118, 0.2689, 0.1669 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(138, 68, 177)` looks like.

```
.text, #text, p{  
    color:rgb(138, 68, 177)  
}
```

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(138, 68, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 68, 177) }
```

Border

The CSS property to change the border of an element to Yxy 12.7118, 0.2689, 0.1669 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(138, 68, 177) }
```

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

```
.border{ border-color:rgb(138, 68, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 68, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(138, 68, 177); -webkit-box-shadow:4px 4px 4px 4px rgb(138, 68, 177); box-shadow:4px 4px 4px 4px rgb(138, 68, 177) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7118, 0.2689, 0.1669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 68, 177) }
```

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

```
.background{ background-color: rgb(138, 68,  
177) }
```

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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