

Converting Colors

$Y_{xy}(13.1350, 0.3156, 0.1730)$

Have a look what the booklet for
Yxy(13.1350, 0.3156, 0.1730)
contains.

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Color

Yxy(13.1682, 0.3157, 0.1733)

Conversions

Conversions Part 1

Format	Color
Hex	A631A9
RGB	166, 49, 169
RGB Percent	65%, 19%, 66%
CMY	0.3490, 0.8079, 0.3371
CMYK	0.02, 0.71, 0.00, 0.34
HSL	298°, 55%, 43%
HSV	298°, 71%, 66%
XYZ	23.9885, 13.1682, 38.8283
YIQ	97.6630, 31.2120, 62.1240

Conversions

Conversions Part 2

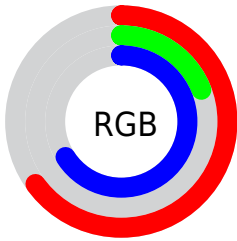
Format	Color
R_{YB}	166, 49, 169
Decimal	10891689
CIE _{Lab}	43.02, 61.60, -40.08
CIE _{LCh}	43, 73.490, 326.953
Yxy	13.1682, 0.3157, 0.1733
Android (android.graphics.Color)	4289081769 (0xFFA631A9)
YUV	97.6630, 35.1691, 59.9315
Hunter-Lab	36.2880, 54.4947, -38.0389

Details

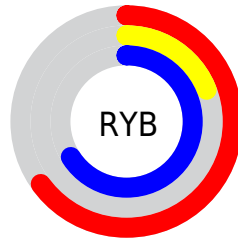
The Yxy color **13.1682, 0.3157, 0.1733** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **29.3393, 0.3037, 0.5513**, and the grayscale version is **12.0308, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.5916, 0.3176, 0.2028**, and **4.5760, 0.3085, 0.1473** is the 20% darker color. If you saturate the color by 10%, you get **11.9648, 0.3155, 0.1619**, and if you desaturate by 10%, it is **14.9030, 0.3157, 0.1888**.

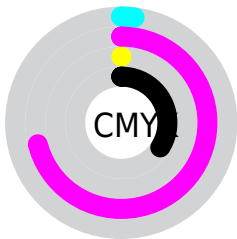
Distribution



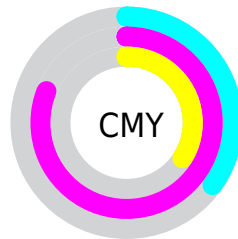
- Red (65%)
- Green (19%)
- Blue (66%)



- Red (65%)
- Yellow (19%)
- Blue (66%)



- Cyan (2%)
- Magenta (71%)
- Yellow (0%)
- Black (34%)





- Cyan (35%)
- Magenta (81%)
- Yellow (34%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.1682, 0.3157, 0.1733 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 13.1682, 0.3157, 0.1733 by changing the saturation by 10% instead.


 13.1682, 0.3157,
0.1733


 13.1682, 0.3157,
0.1733


211.9928, 0.3181,
0.2543


 7.5445, 0.3133,
0.1530


 31.6056, 0.3178,
0.2030


 3.8049, 0.3089,
0.1274


 45.1881, 0.3182,
0.2142


 1.5650, 0.3004,
0.0950

 62.1923, 0.3183,
0.2235

 0.3338, 0.2867,
0.0425

 83.0026, 0.3184,
0.2315

 0.0000, 0.2472,
0.0000

 108.0035, 0.3184,
0.2384

 0.0000, 0.0000,
0.0000

 137.5792, 0.3183,

0.2444

172.1142, 0.3182,
0.2496

■ 13.1682, 0.3157,
0.1733

■ 13.1682, 0.3157,
0.1733

■ 11.9648, 0.3155,
0.1619

■ 14.9030, 0.3157,
0.1888

■ 11.2282, 0.3151,
0.1546

■ 17.2206, 0.3155,
0.2078

■ 10.8404, 0.3147,
0.1507

■ 20.1683, 0.3152,
0.2296

■ 23.7881, 0.3147,
0.2532

■ 28.1184, 0.3142,
0.2778

■ 33.1946, 0.3135,
0.3025

■ 39.0500, 0.3128,
0.3266

■ 45.7155, 0.3121,
0.3497

■ 53.2207, 0.3113,
0.3714

Harmonies

Analogous

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



13.1682, 0.1907, 0.1387



13.1682, 0.3157, 0.1733



13.1682, 0.4781, 0.2352

Triad

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



13.1682, 0.3157, 0.1733



13.1682, 0.4977, 0.5002



13.1682, 0.0989, 0.2541

Complementary

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



13.1682, 0.3157, 0.1733



29.3393, 0.3037, 0.5513

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.



13.1682, 0.1482, 0.4328



13.1682, 0.3157, 0.1733



13.1682, 0.3736, 0.5989

Square

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



13.1682, 0.3157, 0.1733



13.1682, 0.5802, 0.3936



13.1682, 0.2498, 0.6038



13.1682, 0.0936, 0.1646

Rectangle

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



13.1682, 0.3157, 0.1733



13.1682, 0.5627, 0.2847



13.1682, 0.2498, 0.6038



13.1682, 0.1094, 0.3038

Sweetspot

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



13.1688, 0.3157, 0.1733



50.0392, 0.3142, 0.2769



6.0636, 0.1798, 0.1123



10.4373, 0.3143, 0.2704



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290

Same Dimension

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



13.1688, 0.3157, 0.1733



20.5990, 0.3153, 0.1574



11.8264, 0.4164, 0.2408



7.6568, 0.3134, 0.3067



8.0798, 0.3148, 0.1508



0.1995, 0.3169, 0.1520

Inverse Universe

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



10.8820, 0.5421, 0.3261



16.3259, 0.6053, 0.3273



30.0600, 0.2717, 0.4535



7.5453, 0.3282, 0.3285



6.2947, 0.6366, 0.3281



0.1541, 0.6210, 0.3195

Previews

White Background



This preview shows how the Yxy color 13.1682, 0.3157, 0.1733 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 13.1682, 0.3157, 0.1733 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

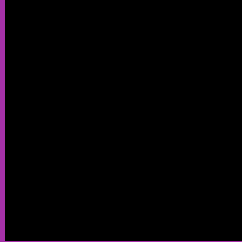
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.1682, 0.3157, 0.1733

Background



This preview shows how black text looks on a background with the Yxy color 13.1682, 0.3157, 0.1733.



This preview shows how white text looks on a background with the Yxy color 13.1682, 0.3157, 0.1733.

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

13.1682, 0.3157, 0.1733

Protanopia

13.5768, 0.1742, 0.1469

Deuteranopia

13.4155, 0.2195, 0.2137



Tritanopia

13.1568, 0.4381, 0.3196

Trichromacy



Original Color

13.1682, 0.3157, 0.1733



Protanomaly

10.7856, 0.1870, 0.1376



Deuteranomaly

11.9310, 0.2449, 0.1857



Tritanomaly

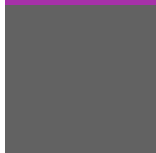
12.7257, 0.3922, 0.2547

Monochromacy



Original Color

13.1682, 0.3157, 0.1733



Achromatopsia

12.2139, 0.3127, 0.3290



Achromatomaly

11.4035, 0.3151, 0.2448

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.1682, 0.3157, 0.1733 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(166, 49, 169)` looks like.

```
.text, #text, p{  
    color:rgb(166, 49, 169)  
}
```

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(166, 49, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 49, 169) }
```

Border

The CSS property to change the border of an element to Yxy 13.1682, 0.3157, 0.1733 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(166, 49, 169) }
```

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

```
.border{ border-color:rgb(166, 49, 169) }
```

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

Here you see how a box with a 4 pixel rgb(166, 49, 169) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 49, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 49, 169);  
box-shadow:4px 4px 4px 4px rgb(166, 49,  
169) }
```


Background

The CSS property to change the background color of an element to Yxy 13.1682, 0.3157, 0.1733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 49, 169) }
```

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

```
.background{ background-color: rgb(166, 49,  
169) }
```

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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