

Converting Colors

$Y_{xy}(13.4122, 0.3567, 0.2049)$

Have a look what the booklet for
Yxy(13.4122, 0.3567, 0.2049)
contains.

Yxy(13.3716, 0.3573, 0.2050)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(13.3716, 0.3573, 0.2050)

Conversions

Conversions Part 1

Format	Color
Hex	AB3692
RGB	171, 54, 146
RGB Percent	67%, 21%, 57%
CMY	0.3293, 0.7883, 0.4274
CMYK	0.00, 0.68, 0.15, 0.33
HSL	313°, 52%, 44%
HSV	313°, 68%, 67%
XYZ	23.3057, 13.3716, 28.5500
YIQ	99.4710, 40.2000, 53.4160

Conversions

Conversions Part 2

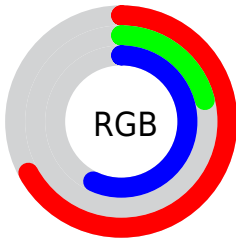
Format	Color
R_{YB}	171, 54, 146
Decimal	11220626
CIE _{Lab}	43.32, 57.27, -25.74
CIE _{LCh}	43, 62.789, 335.801
Yxy	13.3716, 0.3573, 0.2050
Android (android.graphics.Color)	4289410706 (0xFFAB3692)
YUV	99.4710, 22.9388, 62.7309
Hunter-Lab	36.5672, 49.7725, -20.6939

Details

The Yxy color **13.3716, 0.3573, 0.2050** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **30.4815, 0.2900, 0.5052**, and the grayscale version is **12.5343, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.9800, 0.3487, 0.2308**, and **4.4711, 0.3682, 0.1802** is the 20% darker color. If you saturate the color by 10%, you get **11.9394, 0.3657, 0.1952**, and if you desaturate by 10%, it is **15.3683, 0.3491, 0.2186**.

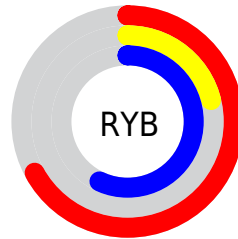
Distribution



Red (67%)

Green (21%)

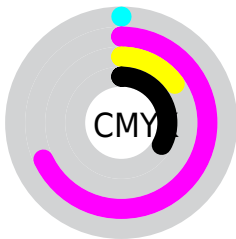
Blue (57%)



Red (67%)

Yellow (21%)

Blue (57%)

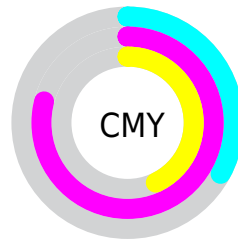


Cyan (0%)

Magenta (68%)

Yellow (15%)

Black (33%)



Cyan (33%)


Magenta (79%)


Yellow (43%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.3716, 0.3573, 0.2050 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 13.3716, 0.3573, 0.2050 by changing the saturation by 10% instead.


 13.3716, 0.3573,
0.2050


 13.3716, 0.3573,
0.2050

213.2857, 0.3339,
0.2720

 7.6849, 0.3633,
0.1869


 31.9698, 0.3486,
0.2305


 3.8940, 0.3710,
0.1630


 45.6501, 0.3454,
0.2397


 1.6145, 0.3808,
0.1306

 62.7637, 0.3427,
0.2474

 0.3673, 0.3998,
0.0696

 83.6951, 0.3404,
0.2538

 0.0000, 0.4114,
0.0000

 108.8286, 0.3384,
0.2594

 0.0000, 0.0000,
0.0000

 138.5485, 0.3367,

0.2642

173.2395, 0.3352,
0.2683

■ 13.3716, 0.3573,
0.2050

■ 13.3716, 0.3573,
0.2050

■ 11.9394, 0.3657,
0.1952

■ 15.3683, 0.3491,
0.2186

■ 11.0079, 0.3740,
0.1898

■ 17.9803, 0.3412,
0.2352

■ 10.4688, 0.3820,
0.1886

■ 21.2551, 0.3340,
0.2538

■ 10.3946, 0.3832,
0.1885

■ 25.2349, 0.3274,
0.2735

■ 29.9583, 0.3216,
0.2934

■ 35.4612, 0.3165,
0.3130

■ 41.7772, 0.3121,
0.3319

■ 48.9378, 0.3083,
0.3497

■ 56.9730, 0.3051,
0.3663

Harmonies

Analogous

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



13.3716, 0.2338, 0.1644



13.3716, 0.3573, 0.2050



13.3716, 0.4910, 0.2681

Triad

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



13.3716, 0.3573, 0.2050



13.3716, 0.4531, 0.5141



13.3716, 0.1156, 0.2369

Complementary

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



13.3716, 0.3573, 0.2050



30.4815, 0.2900, 0.5052

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.



13.3716, 0.1511, 0.3684



13.3716, 0.3573, 0.2050



13.3716, 0.3441, 0.5765

Square

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



13.3716, 0.3573, 0.2050



13.3716, 0.5370, 0.4237



13.3716, 0.2337, 0.5262



13.3716, 0.1187, 0.1717

Rectangle

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



13.3716, 0.3573, 0.2050



13.3716, 0.5478, 0.3166



13.3716, 0.2337, 0.5262



13.3716, 0.1226, 0.2729

Sweetspot

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



13.3723, 0.3573, 0.2050



51.0159, 0.3232, 0.2876



7.1715, 0.2020, 0.1231



10.8667, 0.3247, 0.2823



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290

Same Dimension

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



13.3723, 0.3573, 0.2050



20.4368, 0.3699, 0.1919



12.0195, 0.4668, 0.2816



8.1183, 0.3169, 0.3113



7.8419, 0.3825, 0.1881



0.2254, 0.3606, 0.1760

Inverse Universe

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



13.3723, 0.3573, 0.2050



20.4368, 0.3699, 0.1919



31.6921, 0.2549, 0.3936



8.1183, 0.3169, 0.3113



7.8419, 0.3825, 0.1881



0.2254, 0.3606, 0.1760

Previews

White Background



This preview shows how the Yxy color 13.3716, 0.3573, 0.2050 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 13.3716, 0.3573, 0.2050 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

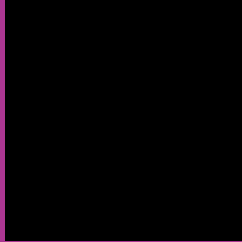
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.3716, 0.3573, 0.2050

Background



This preview shows how black text looks on a background with the Yxy color 13.3716, 0.3573, 0.2050.



This preview shows how white text looks on a background with the Yxy color 13.3716, 0.3573, 0.2050.

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

13.3716, 0.3573, 0.2050

Protanopia

13.6739, 0.2001, 0.1781

Deuteranopia

13.6940, 0.2581, 0.2538



Tritanopia

13.4614, 0.4634, 0.3219

Trichromacy



Original Color

13.3716, 0.3573, 0.2050



Protanomaly

11.9516, 0.2346, 0.1761



Deuteranomaly

12.5149, 0.2876, 0.2247



Tritanomaly

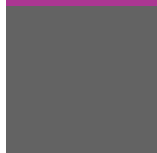
13.2091, 0.4256, 0.2757

Monochromacy



Original Color

13.3716, 0.3573, 0.2050



Achromatopsia

12.4772, 0.3127, 0.3290



Achromatomaly

11.8074, 0.3301, 0.2651

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.3716, 0.3573, 0.2050 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(171, 54, 146)` looks like.

```
.text, #text, p{  
    color:rgb(171, 54, 146)  
}
```

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(171, 54, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 54, 146) }
```

Border

The CSS property to change the border of an element to Yxy 13.3716, 0.3573, 0.2050 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(171, 54, 146) }
```

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

```
.border{ border-color:rgb(171, 54, 146) }
```

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

Here you see how a box with a 4 pixel rgb(171, 54, 146) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 54, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 54, 146);  
box-shadow:4px 4px 4px 4px rgb(171, 54,  
146) }
```


Background

The CSS property to change the background color of an element to Yxy 13.3716, 0.3573, 0.2050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 54, 146) }
```

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

```
.background{ background-color: rgb(171, 54,  
146) }
```

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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