

Converting Colors

$Y_{xy}(16.3187, 0.2343, 0.2439)$

Have a look what the booklet for
Yxy(16.3187, 0.2343, 0.2439)
contains.

Yxy(16.2872, 0.2336, 0.2428)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(16.2872, 0.2336, 0.2428)

Conversions

Conversions Part 1

Format	Color
Hex	51729F
RGB	81, 114, 159
RGB Percent	32%, 45%, 62%
CMY	0.6823, 0.5529, 0.3764
CMYK	0.49, 0.28, 0.00, 0.38
HSL	215°, 32%, 47%
HSV	215°, 49%, 62%
XYZ	15.6701, 16.2872, 35.1235
YIQ	109.2630, -34.1130, 6.9990

Conversions

Conversions Part 2

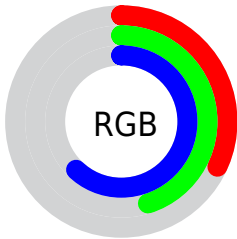
Format	Color
R _Y B	81, 104, 159
Decimal	5337759
CIE Lab	47.35, 1.11, -27.94
CIE LCh	47, 27.964, 272.275
Yxy	16.2872, 0.2336, 0.2428
Android (android.graphics.Color)	4283527839 (0xFF51729F)
YUV	109.2630, 24.5203, -24.7867
Hunter-Lab	40.3574, -1.3171, -23.3505

Details

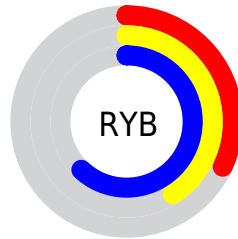
The Yxy color **16.2872, 0.2336, 0.2428** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **22.8948, 0.4070, 0.4008**, and the grayscale version is **15.3089, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.1958, 0.2512, 0.2625**, and **5.1646, 0.2016, 0.2082** is the 20% darker color. If you saturate the color by 10%, you get **13.6981, 0.2177, 0.2212**, and if you desaturate by 10%, it is **19.2497, 0.2502, 0.2634**.

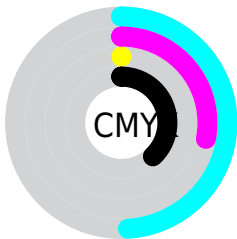
Distribution



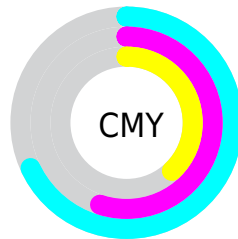
- Red (32%)
- Green (45%)
- Blue (62%)



- Red (32%)
- Yellow (41%)
- Blue (62%)



- Cyan (49%)
- Magenta (28%)
- Yellow (0%)
- Black (38%)



- Cyan (68%)
- Magenta (55%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.2872, 0.2336, 0.2428 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 16.2872, 0.2336, 0.2428 by changing the saturation by 10% instead.

■ 16.2872, 0.2336,
0.2428

■ 16.2872, 0.2336,
0.2428

■ 231.0305, 0.2787,
0.2918

■ 9.7276, 0.2203,
0.2284

■ 37.0961, 0.2515,
0.2621

■ 5.2187, 0.2019,
0.2087

■ 52.1142, 0.2577,
0.2689

■ 2.3762, 0.1754,
0.1803

■ 70.7205, 0.2628,
0.2745

■ 0.8136, 0.1349,
0.1372

■ 93.2996, 0.2671,
0.2791

■ 0.0000, 0.0000,
0.0000

■ 120.2357, 0.2707,
0.2830

151.9133, 0.2738,

0.2864

188.7168, 0.2764,
0.2893

■ 16.2872, 0.2336,
0.2428

■ 16.2872, 0.2336,
0.2428

■ 13.6981, 0.2177,
0.2212

■ 19.2497, 0.2502,
0.2634

■ 11.4630, 0.2031,
0.1992

■ 22.6002, 0.2668,
0.2825

■ 9.5627, 0.1903,
0.1773

■ 26.3545, 0.2833,
0.3001

■ 7.9753, 0.1798,
0.1564

■ 30.5271, 0.2991,
0.3160

■ 6.6615, 0.1716,
0.1369

■ 35.1314, 0.3141,
0.3303

■ 6.5471, 0.1709,
0.1351

■ 40.1804, 0.3282,
0.3429

■ 45.6864, 0.3413,
0.3541

■ 51.6612, 0.3535,
0.3638

■ 58.1163, 0.3647,
0.3724

Harmonies

Analogous

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



16.2872, 0.2143, 0.2611



16.2872, 0.2336, 0.2428



16.2872, 0.2736, 0.2454

Triad

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



16.2872, 0.2336, 0.2428



16.2872, 0.4176, 0.3425



16.2872, 0.2907, 0.4067

Complementary

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



16.2872, 0.2336, 0.2428



22.8948, 0.4070, 0.4008

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.



16.2872, 0.3451, 0.4298



16.2872, 0.2336, 0.2428



16.2872, 0.4209, 0.3851

Square

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



16.2872, 0.2336, 0.2428



16.2872, 0.3824, 0.3004



16.2872, 0.3932, 0.4188



16.2872, 0.2447, 0.3559

Rectangle

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



16.2872, 0.2336, 0.2428



16.2872, 0.3090, 0.2574



16.2872, 0.3932, 0.4188



16.2872, 0.3086, 0.4183

Sweetspot

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



16.2878, 0.2336, 0.2428



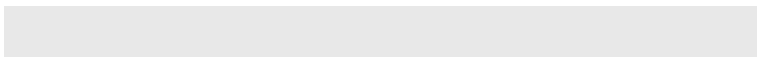
49.9161, 0.2893, 0.3063



28.0361, 0.2732, 0.3926



10.9267, 0.2861, 0.3031



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290

Same Dimension

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



16.2878, 0.2336, 0.2428



24.0703, 0.2161, 0.2189



10.3791, 0.2269, 0.1803



6.8733, 0.2988, 0.3158



5.2498, 0.1713, 0.1367



0.1758, 0.1927, 0.2136

Inverse Universe

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



14.4738, 0.3870, 0.2762



21.4321, 0.4136, 0.2663



32.2459, 0.3774, 0.4479



6.6904, 0.3221, 0.3196



6.1522, 0.5235, 0.2658



0.1183, 0.4302, 0.2144

Previews

White Background



This preview shows how the Yxy color 16.2872, 0.2336, 0.2428 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 16.2872, 0.2336, 0.2428 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

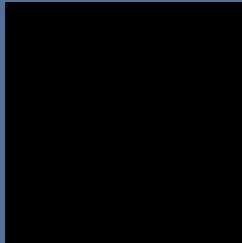
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

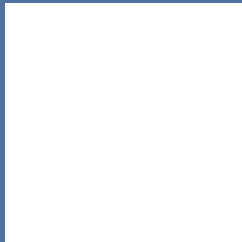
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 16.2872, 0.2336, 0.2428

Background



This preview shows how black text looks on a background with the Yxy color 16.2872, 0.2336, 0.2428.

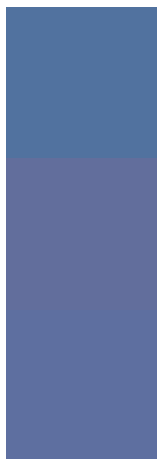


This preview shows how white text looks on a background with the Yxy color 16.2872, 0.2336, 0.2428.

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

16.2872, 0.2336, 0.2428

Protanopia

16.1488, 0.2500, 0.2430

Deuteranopia

16.2866, 0.2432, 0.2379



Tritanopia

16.3956, 0.2520, 0.3095

Trichromacy



Original Color

16.2872, 0.2336, 0.2428

Protanomaly

16.0785, 0.2437, 0.2421

Deuteranomaly

16.2503, 0.2389, 0.2388

Tritanomaly

16.3462, 0.2447, 0.2834

Monochromacy



Original Color

16.2872, 0.2336, 0.2428

Achromatopsia

15.2926, 0.3127, 0.3290

Achromatomaly

15.5538, 0.2791, 0.2961

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.2872, 0.2336, 0.2428 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(81, 114, 159)` looks like.

```
.text, #text, p{  
  color:rgb(81, 114, 159)  
}
```

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(81, 114, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 114, 159) }
```

Border

The CSS property to change the border of an element to Yxy 16.2872, 0.2336, 0.2428 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(81, 114, 159) }
```

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

```
.border{ border-color:rgb(81, 114, 159) }
```

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

Here you see how a box with a 4 pixel rgb(81, 114, 159) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 114, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 114, 159);  
box-shadow:4px 4px 4px 4px rgb(81, 114,  
159) }
```


Background

The CSS property to change the background color of an element to Yxy 16.2872, 0.2336, 0.2428 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 114, 159) }
```

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

```
.background{ background-color: rgb(81, 114,  
159) }
```

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