

Converting Colors

$Y_{xy}(16.1345, 0.2293, 0.2344)$

Have a look what the booklet for
Yxy(16.1345, 0.2293, 0.2344)
contains.

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Color

Yxy(16.1601, 0.2296, 0.2345)

Conversions

Conversions Part 1

Format	Color
Hex	5071A3
RGB	80, 113, 163
RGB Percent	31%, 44%, 64%
CMY	0.6863, 0.5568, 0.3608
CMYK	0.51, 0.31, 0.00, 0.36
HSL	216°, 34%, 48%
HSV	216°, 51%, 64%
XYZ	15.8224, 16.1601, 36.9305
YIQ	108.8330, -35.7180, 8.5540

Conversions

Conversions Part 2

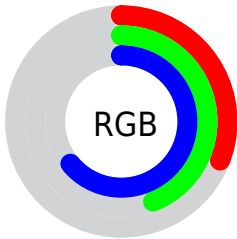
Format	Color
R_{YB}	80, 104, 163
Decimal	5271971
CIE _{Lab}	47.18, 2.71, -30.54
CIE _{LCh}	47, 30.660, 275.067
Yxy	16.1601, 0.2296, 0.2345
Android (android.graphics.Color)	4283462051 (0xFF5071A3)
YUV	108.8330, 26.7043, -25.2865
Hunter-Lab	40.1996, -0.0924, -26.3286

Details

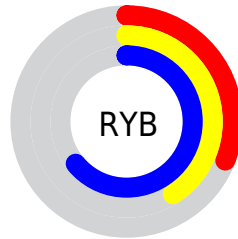
The Yxy color **16.1601, 0.2296, 0.2345** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **24.3217, 0.4099, 0.4065**, and the grayscale version is **15.1733, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.0406, 0.2486, 0.2562**, and **5.2147, 0.1970, 0.1995** is the 20% darker color. If you saturate the color by 10%, you get **13.4623, 0.2135, 0.2118**, and if you desaturate by 10%, it is **19.2681, 0.2464, 0.2563**.

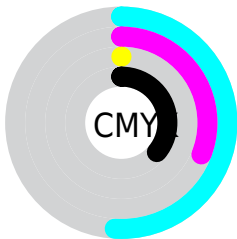
Distribution



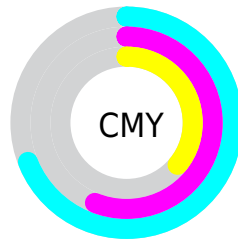
- Red (31%)
- Green (44%)
- Blue (64%)



- Red (31%)
- Yellow (41%)
- Blue (64%)



- Cyan (51%)
- Magenta (31%)
- Yellow (0%)
- Black (36%)



- Cyan (69%)
- Magenta (56%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 16.1601, 0.2296, 0.2345 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 16.1601, 0.2296, 0.2345 by changing the saturation by 10% instead.

■ 16.1601, 0.2296,
0.2345

■ 16.1601, 0.2296,
0.2345

■ 230.2846, 0.2770,
0.2878

■ 9.6375, 0.2157,
0.2191

■ 36.8759, 0.2483,
0.2554

■ 5.1593, 0.1967,
0.1982

■ 51.8379, 0.2549,
0.2628

■ 2.3410, 0.1694,
0.1685

■ 70.3819, 0.2602,
0.2689

■ 0.7953, 0.1287,
0.1245

■ 92.8922, 0.2647,
0.2739

■ 0.0000, 0.0000,
0.0000

■ 119.7532, 0.2685,
0.2782

151.3494, 0.2717,

0.2819

188.0650, 0.2745,
0.2851

■ 16.1601, 0.2296,
0.2345

■ 16.1601, 0.2296,
0.2345

■ 13.4623, 0.2135,
0.2118

■ 19.2681, 0.2464,
0.2563

■ 11.1527, 0.1988,
0.1888

■ 22.8030, 0.2634,
0.2767

■ 9.2096, 0.1862,
0.1662

■ 26.7827, 0.2801,
0.2955

■ 7.6076, 0.1760,
0.1450

■ 31.2235, 0.2961,
0.3125

■ 6.4062, 0.1687,
0.1273

■ 36.1407, 0.3114,
0.3277

■ 41.5488, 0.3256,
0.3412

■ 47.4618, 0.3389,
0.3531

■ 53.8930, 0.3511,
0.3636

■ 60.8552, 0.3623,
0.3727

Harmonies

Analogous

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



16.1601, 0.2067, 0.2516



16.1601, 0.2296, 0.2345



16.1601, 0.2747, 0.2395

Triad

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



16.1601, 0.2296, 0.2345



16.1601, 0.4300, 0.3473



16.1601, 0.2828, 0.4109

Complementary

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



16.1601, 0.2296, 0.2345



24.3217, 0.4099, 0.4065

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.



16.1601, 0.3420, 0.4397



16.1601, 0.2296, 0.2345



16.1601, 0.4297, 0.3934

Square

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



16.1601, 0.2296, 0.2345



16.1601, 0.3942, 0.3015



16.1601, 0.3962, 0.4295



16.1601, 0.2345, 0.3524

Rectangle

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



16.1601, 0.2296, 0.2345



16.1601, 0.3141, 0.2536



16.1601, 0.3962, 0.4295



16.1601, 0.3020, 0.4249

Sweetspot

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



16.1607, 0.2296, 0.2345



52.3608, 0.2892, 0.3053



29.5017, 0.2701, 0.3903



11.4029, 0.2860, 0.3019



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

Same Dimension

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



16.1607, 0.2296, 0.2345



23.5779, 0.2117, 0.2090



10.4681, 0.2257, 0.1746



7.3008, 0.2987, 0.3151



5.0634, 0.1692, 0.1290



0.1973, 0.1895, 0.2021

Inverse Universe

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



14.7133, 0.3951, 0.2775



21.7805, 0.4243, 0.2686



33.7076, 0.3767, 0.4535



7.1305, 0.3225, 0.3201



6.3553, 0.5341, 0.2716



0.1427, 0.4429, 0.2214

Previews

White Background



This preview shows how the Yxy color 16.1601, 0.2296, 0.2345 looks on a white background.

Color Contrast Check

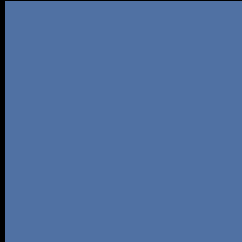
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.1601, 0.2296, 0.2345 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

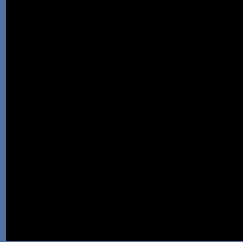
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

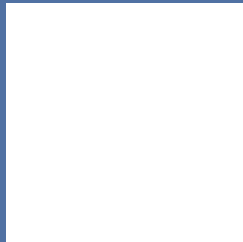
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 16.1601, 0.2296, 0.2345

Background



This preview shows how black text looks on a background with the Yxy color 16.1601, 0.2296, 0.2345.

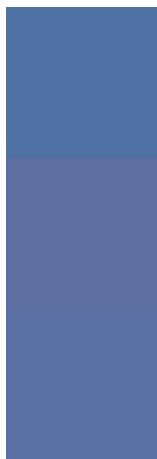


This preview shows how white text looks on a background with the Yxy color 16.1601, 0.2296, 0.2345.

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

16.1601, 0.2296, 0.2345

Protanopia

16.1228, 0.2438, 0.2362

Deuteranopia

16.1869, 0.2372, 0.2326



Tritanopia

16.2831, 0.2495, 0.3094

Trichromacy



Original Color

16.1601, 0.2296, 0.2345

Protanomaly

16.1157, 0.2387, 0.2355

Deuteranomaly

16.2111, 0.2341, 0.2337

Tritanomaly

16.0621, 0.2418, 0.2791

Monochromacy



Original Color

16.1601, 0.2296, 0.2345

Achromatopsia

15.2926, 0.3127, 0.3290

Achromatomaly

15.3335, 0.2757, 0.2900

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.1601, 0.2296, 0.2345 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(80, 113, 163)` looks like.

```
.text, #text, p{  
    color:rgb(80, 113, 163)  
}
```

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(80, 113, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 113, 163) }
```

Border

The CSS property to change the border of an element to Yxy 16.1601, 0.2296, 0.2345 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(80, 113, 163) }
```

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

```
.border{ border-color:rgb(80, 113, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 113, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 113, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 113, 163);  
box-shadow:4px 4px 4px 4px rgb(80, 113,  
163) }
```


Background

The CSS property to change the background color of an element to Yxy 16.1601, 0.2296, 0.2345 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 113, 163) }
```

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

```
.background{ background-color: rgb(80, 113,  
163) }
```

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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