

Converting Colors

$Y_{xy}(12.4333, 0.2180, 0.2070)$

Have a look what the booklet for
Yxy(12.4333, 0.2180, 0.2070)
contains.

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Color

Yxy(12.3547, 0.2180, 0.2062)

Conversions

Conversions Part 1

Format	Color
Hex	46619F
RGB	70, 97, 159
RGB Percent	27%, 38%, 62%
CMY	0.7253, 0.6196, 0.3764
CMYK	0.56, 0.39, 0.00, 0.38
HSL	222°, 39%, 45%
HSV	222°, 56%, 62%
XYZ	13.0617, 12.3547, 34.4997
YIQ	95.9950, -35.9940, 13.5580

Conversions

Conversions Part 2

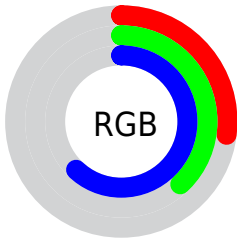
Format	Color
R_{YB}	70, 91, 159
Decimal	4612511
CIE Lab	41.77, 8.99, -36.74
CIE LCh	42, 37.822, 283.758
Yxy	12.3547, 0.2180, 0.2062
Android (android.graphics.Color)	4282802591 (0xFF46619F)
YUV	95.9950, 31.0615, -22.7976
Hunter-Lab	35.1493, 4.8207, -33.5898

Details

The Yxy color **12.3547, 0.2180, 0.2062** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **24.3369, 0.4133, 0.4250**, and the grayscale version is **11.6287, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0076, 0.2400, 0.2332**, and **3.4292, 0.1774, 0.1585** is the 20% darker color. If you saturate the color by 10%, you get **9.9322, 0.2013, 0.1800**, and if you desaturate by 10%, it is **15.2210, 0.2357, 0.2320**.

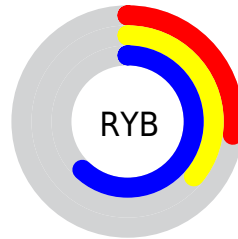
Distribution



Red (27%)

Green (38%)

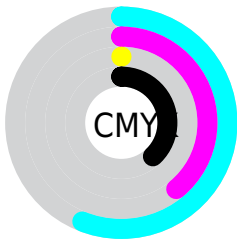
Blue (62%)



Red (27%)

Yellow (36%)

Blue (62%)

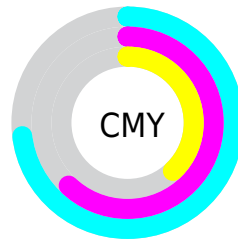


Cyan (56%)

Magenta (39%)

Yellow (0%)

Black (38%)



Cyan (73%)

Magenta (62%)

Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.3547, 0.2180, 0.2062 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 12.3547, 0.2180, 0.2062 by changing the saturation by 10% instead.

■ 12.3547, 0.2180,
0.2062

■ 12.3547, 0.2180,
0.2062

■ 206.7396, 0.2737,
0.2761

■ 6.9857, 0.2011,
0.1861

■ 30.1395, 0.2404,
0.2336

■ 3.4532, 0.1778,
0.1592

■ 43.3241, 0.2482,
0.2433

■ 1.3726, 0.1442,
0.1221

■ 59.8827, 0.2544,
0.2513

■ 0.1964, 0.0852,
0.0412

■ 80.1997, 0.2596,
0.2579

■ 0.0000, 0.0000,
0.0000

■ 104.6595, 0.2640,
0.2635

133.6465, 0.2677,

0.2683

167.5450, 0.2709,
0.2724

■ 12.3547, 0.2180,
0.2062

■ 12.3547, 0.2180,
0.2062

■ 9.9322, 0.2013,
0.1800

■ 15.2210, 0.2357,
0.2320

■ 7.9278, 0.1865,
0.1545

■ 18.5522, 0.2536,
0.2566

■ 6.3146, 0.1742,
0.1307

■ 22.3694, 0.2712,
0.2794

■ 5.0591, 0.1650,
0.1099

■ 26.6923, 0.2881,
0.3002

■ 4.6292, 0.1618,
0.1023

■ 31.5389, 0.3039,
0.3189

■ 36.9268, 0.3185,
0.3355

■ 42.8724, 0.3319,
0.3501

■ 49.3916, 0.3442,
0.3629

■ 56.4996, 0.3553,
0.3741

Harmonies

Analogous

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



12.3547, 0.1814, 0.2174



12.3547, 0.2180, 0.2062



12.3547, 0.2828, 0.2205

Triad

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



12.3547, 0.2180, 0.2062



12.3547, 0.4748, 0.3656



12.3547, 0.2500, 0.4220

Complementary

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



12.3547, 0.2180, 0.2062



24.3369, 0.4133, 0.4250

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.



12.3547, 0.3248, 0.4767



12.3547, 0.2180, 0.2062



12.3547, 0.4570, 0.4244

Square

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



12.3547, 0.2180, 0.2062



12.3547, 0.4411, 0.3071



12.3547, 0.4005, 0.4706



12.3547, 0.1963, 0.3333

Rectangle

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



12.3547, 0.2180, 0.2062



12.3547, 0.3377, 0.2422



12.3547, 0.4005, 0.4706



12.3547, 0.2735, 0.4465

Sweetspot

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



12.3551, 0.2180, 0.2062



46.6740, 0.2858, 0.2975



27.7369, 0.2622, 0.3825



10.1864, 0.2827, 0.2937



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.



12.3551, 0.2180, 0.2062



16.8834, 0.1977, 0.1739



8.8866, 0.2237, 0.1613



6.7465, 0.2988, 0.3130



3.7222, 0.1622, 0.1038



0.1359, 0.1832, 0.1796

Inverse Universe

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



12.6219, 0.4236, 0.2867



18.4817, 0.4642, 0.2812



31.0541, 0.3736, 0.4682



6.6776, 0.3239, 0.3223



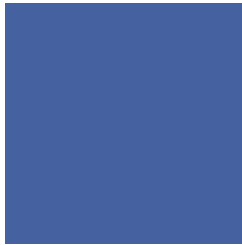
5.9980, 0.5702, 0.2915



0.1142, 0.4690, 0.2357

Previews

White Background



This preview shows how the Yxy color 12.3547, 0.2180, 0.2062 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 12.3547, 0.2180, 0.2062 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

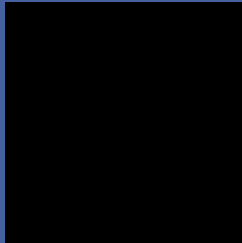
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.3547, 0.2180, 0.2062

Background



This preview shows how black text looks on a background with the Yxy color 12.3547, 0.2180, 0.2062.



This preview shows how white text looks on a background with the Yxy color 12.3547, 0.2180, 0.2062.

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

12.3547, 0.2180, 0.2062

Protanopia

12.2902, 0.2215, 0.2066

Deuteranopia

12.4510, 0.2129, 0.2086



Tritanopia

12.3028, 0.2423, 0.3068

Trichromacy



Original Color

12.3547, 0.2180, 0.2062

Protanomaly

12.2508, 0.2207, 0.2063

Deuteranomaly

12.3624, 0.2146, 0.2071

Tritanomaly

12.2690, 0.2322, 0.2650

Monochromacy



Original Color

12.3547, 0.2180, 0.2062

Achromatopsia

11.6971, 0.3127, 0.3290

Achromatomaly

11.7239, 0.2707, 0.2773

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.3547, 0.2180, 0.2062 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(70, 97, 159)` looks like.

```
.text, #text, p{  
    color:rgb(70, 97, 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(70, 97, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 97, 159) }
```

Border

The CSS property to change the border of an element to Yxy 12.3547, 0.2180, 0.2062 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(70, 97, 159) }
```

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

```
.border{ border-color:rgb(70, 97, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 97, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 97, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 97, 159);  
box-shadow:4px 4px 4px 4px rgb(70, 97,  
159) }
```


Background

The CSS property to change the background color of an element to Yxy 12.3547, 0.2180, 0.2062 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 97, 159) }
```

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

```
.background{ background-color: rgb(70, 97,  
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](#).

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