

Converting Colors

$Y_{xy}(12.7847, 0.2353, 0.1863)$

Have a look what the booklet for
Yxy(12.7847, 0.2353, 0.1863)
contains.

Yxy(12.8137, 0.2359, 0.1866)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.8137, 0.2359, 0.1866)

Conversions

Conversions Part 1

Format	Color
Hex	6559AA
RGB	101, 89, 170
RGB Percent	40%, 35%, 67%
CMY	0.6038, 0.6510, 0.3333
CMYK	0.41, 0.48, 0.00, 0.33
HSL	249°, 32%, 51%
HSV	249°, 48%, 67%
XYZ	16.1991, 12.8137, 39.6565
YIQ	101.8220, -18.8490, 27.7350

Conversions

Conversions Part 2

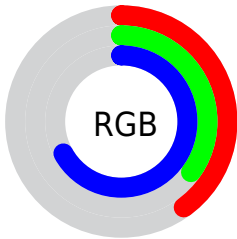
Format	Color
R_{YB}	101, 89, 170
Decimal	6642090
CIE _{Lab}	42.48, 25.14, -42.00
CIE _{LCh}	42, 48.950, 300.908
Yxy	12.8137, 0.2359, 0.1866
Android (android.graphics.Color)	4284832170 (0xFF6559AA)
YUV	101.8220, 33.6118, -0.7209
Hunter-Lab	35.7962, 18.1344, -40.6266

Details

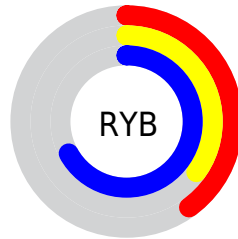
The Yxy color **12.8137, 0.2359, 0.1866** is a dark color, and the websafe version is hex **6666CC**. A complement of this color would be **36.7407, 0.3694, 0.4483**, and the grayscale version is **13.1539, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9248, 0.2544, 0.2157**, and **3.6405, 0.2021, 0.1390** is the 20% darker color. If you saturate the color by 10%, you get **9.5410, 0.2165, 0.1535**, and if you desaturate by 10%, it is **16.8878, 0.2549, 0.2202**.

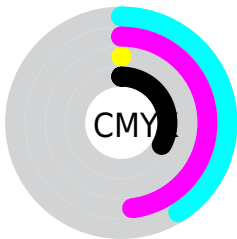
Distribution



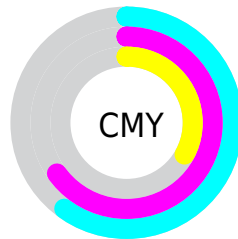
- Red (40%)
- Green (35%)
- Blue (67%)



- Red (40%)
- Yellow (35%)
- Blue (67%)



- Cyan (41%)
- Magenta (48%)
- Yellow (0%)
- Black (33%)



- Cyan (60%)
- Magenta (65%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8137, 0.2359, 0.1866 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 12.8137, 0.2359, 0.1866 by changing the saturation by 10% instead.

■ 12.8137, 0.2359,
0.1866

■ 12.8137, 0.2359,
0.1866

■ 209.7202, 0.2819,
0.2642

■ 7.3004, 0.2217,
0.1659

■ 30.9687, 0.2546,
0.2161

■ 3.6507, 0.2018,
0.1390

■ 44.3791, 0.2611,
0.2268

■ 1.4801, 0.1729,
0.1040

■ 61.1908, 0.2662,
0.2357

■ 0.2747, 0.1319,
0.0414

■ 81.7879, 0.2705,
0.2432

■ 0.0000, 0.0000,
0.0000

■ 106.5551, 0.2741,
0.2496

135.8766, 0.2771,

0.2552

170.1368, 0.2797,
0.2600

■ 12.8137, 0.2359,
0.1866

■ 12.8137, 0.2359,
0.1866

■ 9.5410, 0.2165,
0.1535

■ 16.8878, 0.2549,
0.2202

■ 7.0150, 0.1979,
0.1228

■ 21.8103, 0.2726,
0.2526

■ 5.1762, 0.1812,
0.0970

■ 27.6263, 0.2887,
0.2827

■ 3.9553, 0.1678,
0.0778

■ 34.3772, 0.3030,
0.3101

■ 3.2458, 0.1582,
0.0658

■ 42.1018, 0.3155,
0.3344

■ 3.1133, 0.1564,
0.0635

■ 50.8367, 0.3262,
0.3559

■ 60.6167, 0.3355,
0.3747

■ 71.4748, 0.3433,
0.3911

■ 83.4426, 0.3501,
0.4054

Harmonies

Analogous

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



12.8137, 0.1735, 0.1809



12.8137, 0.2359, 0.1866



12.8137, 0.3323, 0.2185

Triad

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



12.8137, 0.2359, 0.1866



12.8137, 0.5078, 0.4075



12.8137, 0.1905, 0.3829

Complementary

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



12.8137, 0.2359, 0.1866



36.7407, 0.3694, 0.4483

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.



12.8137, 0.2681, 0.4927



12.8137, 0.2359, 0.1866



12.8137, 0.4506, 0.4784

Square

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



12.8137, 0.2359, 0.1866



12.8137, 0.5082, 0.3367



12.8137, 0.3631, 0.5236



12.8137, 0.1498, 0.2722

Rectangle

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



12.8137, 0.2359, 0.1866



12.8137, 0.4054, 0.2520



12.8137, 0.3631, 0.5236



12.8137, 0.2128, 0.4239

Sweetspot

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



12.8142, 0.2359, 0.1866



54.0935, 0.2938, 0.2923



29.8946, 0.2474, 0.3106



11.5100, 0.2907, 0.2864



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.



12.8142, 0.2359, 0.1866



17.1133, 0.2158, 0.1523



15.6469, 0.2808, 0.2025



7.3521, 0.3008, 0.3058



2.3056, 0.1570, 0.0639



0.0715, 0.1815, 0.0773

Inverse Universe

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



18.1571, 0.3335, 0.2301



28.0752, 0.3392, 0.2117



33.3763, 0.3309, 0.4651



7.6471, 0.3159, 0.3100



7.7902, 0.3617, 0.1766



0.1946, 0.3463, 0.1681

Previews

White Background



This preview shows how the Yxy color 12.8137, 0.2359, 0.1866 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 12.8137, 0.2359, 0.1866 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

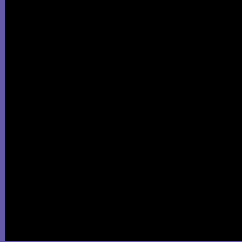
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8137, 0.2359, 0.1866

Background



This preview shows how black text looks on a background with the Yxy color 12.8137, 0.2359, 0.1866.



This preview shows how white text looks on a background with the Yxy color 12.8137, 0.2359, 0.1866.

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

12.8137, 0.2359, 0.1866

Protanopia

12.9739, 0.2020, 0.1821

Deuteranopia

12.9096, 0.2048, 0.2002



Tritanopia

12.8744, 0.2812, 0.3107

Trichromacy



Original Color

12.8137, 0.2359, 0.1866

Protanomaly

12.8161, 0.2120, 0.1834

Deuteranomaly

12.7543, 0.2138, 0.1946

Tritanomaly

12.6766, 0.2630, 0.2576

Monochromacy



Original Color

12.8137, 0.2359, 0.1866

Achromatopsia

13.2868, 0.3127, 0.3290

Achromatomaly

12.9065, 0.2810, 0.2670

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8137, 0.2359, 0.1866 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(101, 89, 170)` looks like.

```
.text, #text, p{  
    color:rgb(101, 89, 170)  
}
```

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(101, 89, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 89, 170) }
```

Border

The CSS property to change the border of an element to Yxy 12.8137, 0.2359, 0.1866 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(101, 89, 170) }
```

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

```
.border{ border-color:rgb(101, 89, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 89, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 89, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 89, 170);  
box-shadow:4px 4px 4px 4px rgb(101, 89,  
170) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8137, 0.2359, 0.1866 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 89, 170) }
```

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

```
.background{ background-color: rgb(101, 89,  
170) }
```

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