

Converting Colors

$Y_{xy}(12.9712, 0.2570, 0.2552)$

Have a look what the booklet for
Yxy(12.9712, 0.2570, 0.2552)
contains.

Yxy(12.9875, 0.2570, 0.2558)	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(12.9875, 0.2570, 0.2558)

Conversions

Conversions Part 1

Format	Color
Hex	596487
RGB	89, 100, 135
RGB Percent	35%, 39%, 53%
CMY	0.6510, 0.6078, 0.4706
CMYK	0.34, 0.26, 0.00, 0.47
HSL	226°, 21%, 44%
HSV	226°, 34%, 53%
XYZ	13.0484, 12.9875, 24.7362
YIQ	100.7010, -17.7910, 8.5530

Conversions

Conversions Part 2

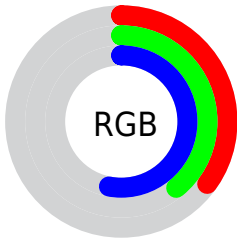
Format	Color
R_{YB}	89, 98, 135
Decimal	5858439
CIE _{Lab}	42.74, 4.73, -20.75
CIE _{LCh}	43, 21.284, 282.830
Yxy	12.9875, 0.2570, 0.2558
Android (android.graphics.Color)	4284048519 (0xFF596487)
YUV	100.7010, 16.9094, -10.2618
Hunter-Lab	36.0382, 1.5631, -15.4692

Details

The Yxy color **12.9875, 0.2570, 0.2558** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **20.2781, 0.3679, 0.3927**, and the grayscale version is **12.8917, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.3395, 0.2709, 0.2742**, and **3.7656, 0.2312, 0.2247** is the 20% darker color. If you saturate the color by 10%, you get **10.5336, 0.2387, 0.2297**, and if you desaturate by 10%, it is **15.8130, 0.2747, 0.2800**.

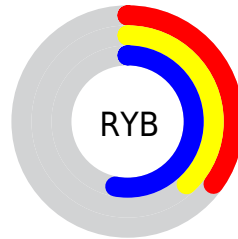
Distribution



Red (35%)

Green (39%)

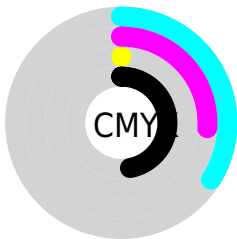
Blue (53%)



Red (35%)

Yellow (38%)

Blue (53%)

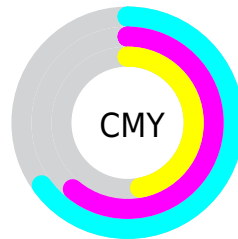


Cyan (34%)

Magenta (26%)

Yellow (0%)

Black (47%)



Cyan (65%)

Magenta (61%)

Yellow (47%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9875, 0.2570, 0.2558 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 12.9875, 0.2570, 0.2558 by changing the saturation by 10% instead.

■ 12.9875, 0.2570,
0.2558

■ 12.9875, 0.2570,
0.2558

■ 210.8375, 0.2903,
0.2988

■ 7.4199, 0.2462,
0.2423

■ 31.2813, 0.2708,
0.2733

■ 3.7261, 0.2304,
0.2230

■ 44.7764, 0.2754,
0.2793

■ 1.5215, 0.2056,
0.1933

■ 61.6827, 0.2791,
0.2841

■ 0.3038, 0.1474,
0.1108

■ 82.3847, 0.2822,
0.2881

■ 0.0000, 0.0000,
0.0000

■ 107.2668, 0.2847,
0.2914

136.7134, 0.2869,

0.2942

171.1088, 0.2887,
0.2967

■ 12.9875, 0.2570,
0.2558

■ 12.9875, 0.2570,
0.2558

■ 10.5336, 0.2387,
0.2297

■ 15.8130, 0.2747,
0.2800

■ 8.4339, 0.2204,
0.2023

■ 19.0235, 0.2913,
0.3020

■ 6.6719, 0.2029,
0.1745

■ 22.6336, 0.3068,
0.3216

■ 5.2288, 0.1870,
0.1476

■ 26.6566, 0.3209,
0.3391

■ 4.0841, 0.1737,
0.1228

■ 31.1052, 0.3338,
0.3544

■ 3.2137, 0.1636,
0.1015

■ 35.9916, 0.3453,
0.3677

■ 2.8004, 0.1585,
0.0906

■ 41.3275, 0.3557,
0.3794

■ 47.1240, 0.3650,
0.3896

■ 53.3920, 0.3733,
0.3984

Harmonies

Analogous

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



12.9875, 0.2340, 0.2655



12.9875, 0.2570, 0.2558



12.9875, 0.2958, 0.2634

Triad

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



12.9875, 0.2570, 0.2558



12.9875, 0.4029, 0.3542



12.9875, 0.2803, 0.3791

Complementary

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



12.9875, 0.2570, 0.2558



20.2781, 0.3679, 0.3927

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.



12.9875, 0.3244, 0.4072



12.9875, 0.2570, 0.2558



12.9875, 0.3967, 0.3878

Square

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



12.9875, 0.2570, 0.2558



12.9875, 0.3825, 0.3177



12.9875, 0.3673, 0.4089



12.9875, 0.2465, 0.3351

Rectangle

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



12.9875, 0.2570, 0.2558



12.9875, 0.3266, 0.2768



12.9875, 0.3673, 0.4089



12.9875, 0.2944, 0.3910

Sweetspot

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



12.9880, 0.2570, 0.2558



36.4798, 0.2974, 0.3098



20.8902, 0.2761, 0.3520



8.2687, 0.2955, 0.3074



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290

Same Dimension

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



12.9880, 0.2570, 0.2558



19.7618, 0.2427, 0.2355



11.6288, 0.2686, 0.2357



4.7124, 0.2992, 0.3120



2.6012, 0.1587, 0.0912



0.0189, 0.1788, 0.1636

Inverse Universe

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



13.2128, 0.3702, 0.3084



20.4696, 0.3897, 0.3035



22.2927, 0.3479, 0.4147



4.7057, 0.3245, 0.3238



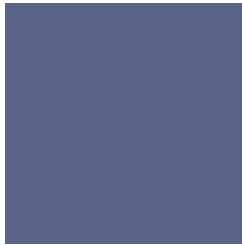
4.8495, 0.5893, 0.3020



0.0178, 0.4886, 0.2465

Previews

White Background



This preview shows how the Yxy color 12.9875, 0.2570, 0.2558 looks on a white background.

Color Contrast Check

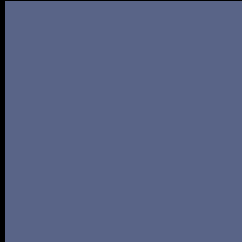
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9875, 0.2570, 0.2558 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

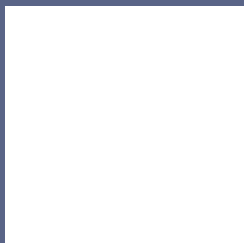
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.9875, 0.2570, 0.2558

Background



This preview shows how black text looks on a background with the Yxy color 12.9875, 0.2570, 0.2558.

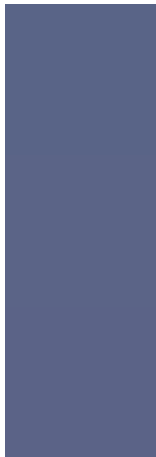


This preview shows how white text looks on a background with the Yxy color 12.9875, 0.2570, 0.2558.

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

12.9875, 0.2570, 0.2558

Protanopia

13.0878, 0.2593, 0.2562

Deuteranopia

12.8971, 0.2590, 0.2541



Tritanopia

12.9777, 0.2753, 0.3084

Trichromacy



Original Color

12.9875, 0.2570, 0.2558

Protanomaly

13.0373, 0.2581, 0.2560

Deuteranomaly

12.8466, 0.2579, 0.2538

Tritanomaly

13.0594, 0.2688, 0.2891

Monochromacy



Original Color

12.9875, 0.2570, 0.2558

Achromatopsia

13.0136, 0.3127, 0.3290

Achromatomaly

13.0410, 0.2916, 0.3027

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9875, 0.2570, 0.2558 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(89, 100, 135)` looks like.

```
.text, #text, p{  
  color:rgb(89, 100, 135)  
}
```

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(89, 100, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 100, 135) }
```

Border

The CSS property to change the border of an element to Yxy 12.9875, 0.2570, 0.2558 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(89, 100, 135) }
```

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

```
.border{ border-color:rgb(89, 100, 135) }
```

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

Here you see how a box with a 4 pixel rgb(89, 100, 135) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 100, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 100, 135);  
box-shadow:4px 4px 4px 4px rgb(89, 100,  
135) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9875, 0.2570, 0.2558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 100, 135) }
```

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

```
.background{ background-color: rgb(89, 100,  
135) }
```

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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