

Converting Colors

$Y_{xy}(13.0083, 0.2277, 0.2284)$

Have a look what the booklet for
Yxy(13.0083, 0.2277, 0.2284)
contains.

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Color

Yxy(12.9582, 0.2277, 0.2272)

Conversions

Conversions Part 1

Format	Color
Hex	496597
RGB	73, 101, 151
RGB Percent	29%, 40%, 59%
CMY	0.7137, 0.6039, 0.4079
CMYK	0.52, 0.33, 0.00, 0.41
HSL	218°, 35%, 44%
HSV	218°, 52%, 59%
XYZ	12.9867, 12.9582, 31.0894
YIQ	98.3280, -32.7380, 9.6140

Conversions

Conversions Part 2

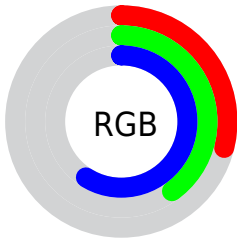
Format	Color
R_{YB}	73, 94, 151
Decimal	4810135
CIE _{Lab}	42.70, 4.51, -30.49
CIE _{LCh}	43, 30.823, 278.413
Yxy	12.9582, 0.2277, 0.2272
Android (android.graphics.Color)	4283000215 (0xFF496597)
YUV	98.3280, 25.9673, -22.2127
Hunter-Lab	35.9975, 1.4013, -26.0078

Details

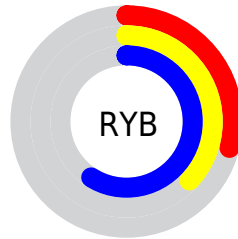
The Yxy color **12.9582, 0.2277, 0.2272** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **21.2237, 0.4082, 0.4116**, and the grayscale version is **12.2408, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.2999, 0.2482, 0.2518**, and **3.7458, 0.1908, 0.1857** is the 20% darker color. If you saturate the color by 10%, you get **10.6685, 0.2113, 0.2032**, and if you desaturate by 10%, it is **15.6133, 0.2448, 0.2504**.

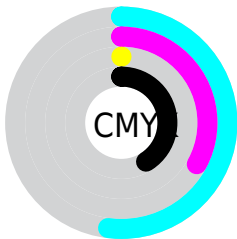
Distribution



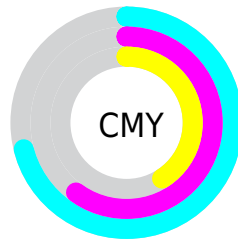
- Red (29%)
- Green (40%)
- Blue (59%)



- Red (29%)
- Yellow (37%)
- Blue (59%)



- Cyan (52%)
- Magenta (33%)
- Yellow (0%)
- Black (41%)



- Cyan (71%)
- Magenta (60%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9582, 0.2277, 0.2272 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 12.9582, 0.2277, 0.2272 by changing the saturation by 10% instead.

■ 12.9582, 0.2277,
0.2272

■ 12.9582, 0.2277,
0.2272

■ 210.6496, 0.2777,
0.2860

■ 7.3998, 0.2123,
0.2096

■ 31.2287, 0.2479,
0.2507

■ 3.7133, 0.1908,
0.1853

■ 44.7095, 0.2548,
0.2589

■ 1.5145, 0.1590,
0.1503

■ 61.5999, 0.2605,
0.2655

■ 0.2989, 0.0973,
0.0737

■ 82.2843, 0.2651,
0.2710

■ 0.0000, 0.0000,
0.0000

■ 107.1471, 0.2690,
0.2757

136.5726, 0.2723,

0.2796

170.9453, 0.2752,
0.2831

■ 12.9582, 0.2277,
0.2272

■ 12.9582, 0.2277,
0.2272

■ 10.6685, 0.2113,
0.2032

■ 15.6133, 0.2448,
0.2504

■ 8.7248, 0.1962,
0.1790

■ 18.6494, 0.2621,
0.2721

■ 7.1073, 0.1832,
0.1556

■ 22.0823, 0.2789,
0.2921

■ 5.7934, 0.1729,
0.1339

■ 25.9269, 0.2951,
0.3103

■ 4.8913, 0.1660,
0.1174

■ 30.1969, 0.3103,
0.3265

■ 34.9057, 0.3245,
0.3409

■ 40.0657, 0.3376,
0.3536

■ 45.6890, 0.3496,
0.3648

■ 51.7873, 0.3605,
0.3745

Harmonies

Analogous

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



12.9582, 0.2006, 0.2422



12.9582, 0.2277, 0.2272



12.9582, 0.2782, 0.2352

Triad

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



12.9582, 0.2277, 0.2272



12.9582, 0.4415, 0.3534



12.9582, 0.2733, 0.4124

Complementary

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



12.9582, 0.2277, 0.2272



21.2237, 0.4082, 0.4116

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.



12.9582, 0.3364, 0.4482



12.9582, 0.2277, 0.2272



12.9582, 0.4362, 0.4024

Square

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



12.9582, 0.2277, 0.2272



12.9582, 0.4068, 0.3042



12.9582, 0.3964, 0.4401



12.9582, 0.2239, 0.3463

Rectangle

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



12.9582, 0.2277, 0.2272



12.9582, 0.3215, 0.2515



12.9582, 0.3964, 0.4401



12.9582, 0.2936, 0.4291

Sweetspot

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



12.9587, 0.2277, 0.2272



43.8364, 0.2893, 0.3039



24.9611, 0.2679, 0.3855



9.6586, 0.2862, 0.3004



76.7769, 0.3127, 0.3290



12.5967, 0.3127, 0.3290

Same Dimension

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



12.9587, 0.2277, 0.2272



18.5131, 0.2088, 0.1993



8.8578, 0.2278, 0.1744



6.3712, 0.2988, 0.3144



4.2120, 0.1663, 0.1186



0.1278, 0.1889, 0.1999

Inverse Universe

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



12.2840, 0.4018, 0.2821



18.0781, 0.4343, 0.2742



28.2373, 0.3742, 0.4558



6.2575, 0.3230, 0.3210



5.8305, 0.5487, 0.2796



0.0937, 0.4454, 0.2227

Previews

White Background



This preview shows how the Yxy color 12.9582, 0.2277, 0.2272 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 12.9582, 0.2277, 0.2272 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

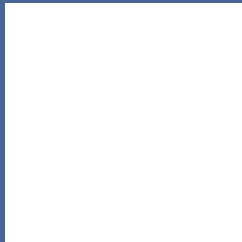
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.9582, 0.2277, 0.2272

Background



This preview shows how black text looks on a background with the Yxy color 12.9582, 0.2277, 0.2272.

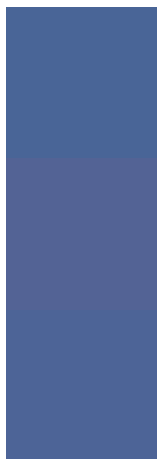


This preview shows how white text looks on a background with the Yxy color 12.9582, 0.2277, 0.2272.

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

12.9582, 0.2277, 0.2272

Protanopia

12.9326, 0.2377, 0.2285

Deuteranopia

12.9265, 0.2308, 0.2260



Tritanopia

13.0016, 0.2483, 0.3075

Trichromacy



Original Color

12.9582, 0.2277, 0.2272

Protanomaly

12.9786, 0.2334, 0.2280

Deuteranomaly

12.8852, 0.2299, 0.2257

Tritanomaly

12.8119, 0.2399, 0.2746

Monochromacy



Original Color

12.9582, 0.2277, 0.2272

Achromatopsia

12.2139, 0.3127, 0.3290

Achromatomaly

12.3319, 0.2761, 0.2887

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9582, 0.2277, 0.2272 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(73, 101, 151)` looks like.

```
.text, #text, p{  
    color:rgb(73, 101, 151)  
}
```

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(73, 101, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 101, 151) }
```

Border

The CSS property to change the border of an element to Yxy 12.9582, 0.2277, 0.2272 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(73, 101, 151) }
```

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

```
.border{ border-color:rgb(73, 101, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 101, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 101, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 101, 151);  
box-shadow:4px 4px 4px 4px rgb(73, 101,  
151) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9582, 0.2277, 0.2272 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 101, 151) }
```

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

```
.background{ background-color: rgb(73, 101,  
151) }
```

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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