

Converting Colors

$Y_{xy}(12.8080, 0.2457, 0.2404)$

Have a look what the booklet for
Yxy(12.8080, 0.2457, 0.2404)
contains.

Yxy(12.8080, 0.2457, 0.2404)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.8080, 0.2457, 0.2404)

Conversions

Conversions Part 1

Format	Color
Hex	55638E
RGB	85, 99, 142
RGB Percent	33%, 39%, 56%
CMY	0.6667, 0.6117, 0.4431
CMYK	0.40, 0.30, 0.00, 0.44
HSL	225°, 25%, 45%
HSV	225°, 40%, 56%
XYZ	13.0904, 12.8080, 27.3795
YIQ	99.7160, -22.1470, 10.4050

Conversions

Conversions Part 2

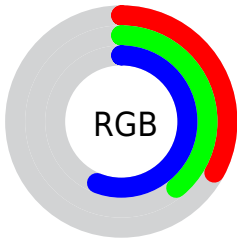
Format	Color
R _Y B	85, 96, 142
Decimal	5596046
CIE Lab	42.47, 6.17, -25.42
CIE LCh	42, 26.161, 283.651
Yxy	12.8080, 0.2457, 0.2404
Android (android.graphics.Color)	4283786126 (0xFF55638E)
YUV	99.7160, 20.8460, -12.9059
Hunter-Lab	35.7883, 2.6610, -20.3075

Details

The Yxy color **12.8080, 0.2457, 0.2404** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **21.8453, 0.3793, 0.4039**, and the grayscale version is **12.6179, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1166, 0.2623, 0.2617**, and **3.6589, 0.2152, 0.2042** is the 20% darker color. If you saturate the color by 10%, you get **10.3126, 0.2273, 0.2135**, and if you desaturate by 10%, it is **15.7070, 0.2638, 0.2657**.

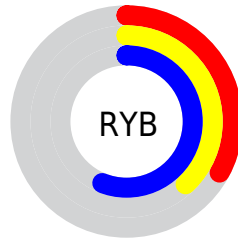
Distribution



Red (33%)

Green (39%)

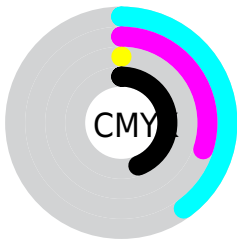
Blue (56%)



Red (33%)

Yellow (38%)

Blue (56%)

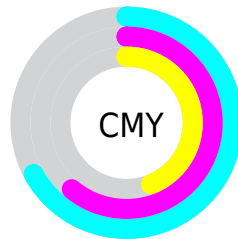


Cyan (40%)

Magenta (30%)

Yellow (0%)

Black (44%)



Cyan (67%)

Magenta (61%)

Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8080, 0.2457, 0.2404 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 12.8080, 0.2457, 0.2404 by changing the saturation by 10% instead.

■ 12.8080, 0.2457,
0.2404

■ 12.8080, 0.2457,
0.2404

■ 209.6835, 0.2856,
0.2920

■ 7.2965, 0.2330,
0.2246

■ 30.9584, 0.2621,
0.2612

■ 3.6482, 0.2146,
0.2023

■ 44.3661, 0.2677,
0.2684

■ 1.4788, 0.1864,
0.1692

■ 61.1746, 0.2721,
0.2742

■ 0.2737, 0.1268,
0.0844

■ 81.7683, 0.2758,
0.2790

■ 0.0000, 0.0000,
0.0000

■ 106.5317, 0.2789,
0.2830

135.8491, 0.2815,

0.2864

170.1049, 0.2837,
0.2894

■ 12.8080, 0.2457,
0.2404

■ 12.8080, 0.2457,
0.2404

■ 10.3126, 0.2273,
0.2135

■ 15.7070, 0.2638,
0.2657

■ 8.2008, 0.2094,
0.1858

■ 19.0254, 0.2812,
0.2890

■ 6.4529, 0.1928,
0.1584

■ 22.7800, 0.2975,
0.3100

■ 5.0469, 0.1784,
0.1326

■ 26.9861, 0.3125,
0.3287

■ 3.9580, 0.1671,
0.1099

■ 31.6583, 0.3262,
0.3452

■ 3.1503, 0.1587,
0.0912

■ 36.8107, 0.3386,
0.3597

■ 42.4564, 0.3497,
0.3723

■ 48.6084, 0.3597,
0.3834

■ 55.2789, 0.3687,
0.3929

Harmonies

Analogous

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



12.8080, 0.2179, 0.2506



12.8080, 0.2457, 0.2404



12.8080, 0.2929, 0.2504

Triad

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



12.8080, 0.2457, 0.2404



12.8080, 0.4243, 0.3593



12.8080, 0.2709, 0.3905

Complementary

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



12.8080, 0.2457, 0.2404



21.8453, 0.3793, 0.4039

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.



12.8080, 0.3244, 0.4266



12.8080, 0.2457, 0.2404



12.8080, 0.4149, 0.4004

Square

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



12.8080, 0.2457, 0.2404



12.8080, 0.4002, 0.3156



12.8080, 0.3774, 0.4278



12.8080, 0.2309, 0.3342

Rectangle

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



12.8080, 0.2457, 0.2404



12.8080, 0.3309, 0.2666



12.8080, 0.3774, 0.4278



12.8080, 0.2879, 0.4059

Sweetspot

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



12.8085, 0.2457, 0.2404



38.7117, 0.2942, 0.3058



22.8335, 0.2705, 0.3569



8.4800, 0.2924, 0.3036



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290

Same Dimension

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



12.8085, 0.2457, 0.2404



18.6564, 0.2294, 0.2167



11.1144, 0.2585, 0.2160



5.4570, 0.2990, 0.3119



2.8536, 0.1589, 0.0919



0.0576, 0.1794, 0.1658

Inverse Universe

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



13.1477, 0.3850, 0.3038



19.6983, 0.4096, 0.2986



24.5769, 0.3539, 0.4310



5.4445, 0.3245, 0.3236



5.2744, 0.5882, 0.3014



0.0535, 0.4859, 0.2450

Previews

White Background



This preview shows how the Yxy color 12.8080, 0.2457, 0.2404 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 12.8080, 0.2457, 0.2404 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

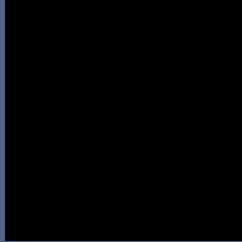
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

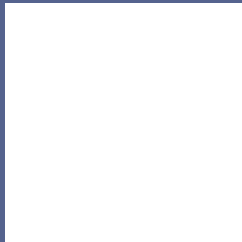
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.8080, 0.2457, 0.2404

Background



This preview shows how black text looks on a background with the Yxy color 12.8080, 0.2457, 0.2404.

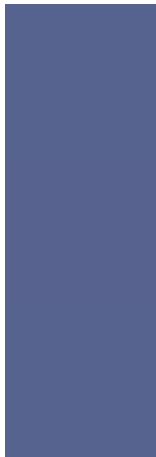


This preview shows how white text looks on a background with the Yxy color 12.8080, 0.2457, 0.2404.

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

12.8080, 0.2457, 0.2404

Protanopia

12.9029, 0.2479, 0.2409

Deuteranopia

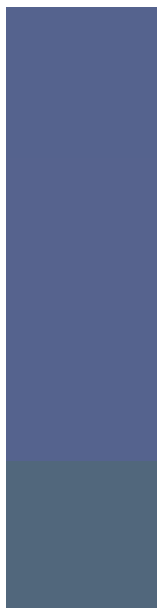
12.8080, 0.2457, 0.2404



Tritanopia

12.9151, 0.2685, 0.3103

Trichromacy



Original Color

12.8080, 0.2457, 0.2404

Protanomaly

12.8551, 0.2468, 0.2407

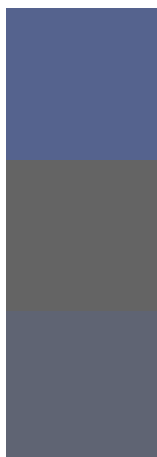
Deuteranomaly

12.8080, 0.2457, 0.2404

Tritanomaly

12.9051, 0.2599, 0.2823

Monochromacy



Original Color

12.8080, 0.2457, 0.2404

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.7850, 0.2864, 0.2960

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8080, 0.2457, 0.2404 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(85, 99, 142)` looks like.

```
.text, #text, p{  
    color:rgb(85, 99, 142)  
}
```

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(85, 99, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 99, 142) }
```

Border

The CSS property to change the border of an element to Yxy 12.8080, 0.2457, 0.2404 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(85, 99, 142) }
```

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

```
.border{ border-color:rgb(85, 99, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 99, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 99, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 99, 142);  
box-shadow:4px 4px 4px 4px rgb(85, 99,  
142) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8080, 0.2457, 0.2404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 99, 142) }
```

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

```
.background{ background-color: rgb(85, 99,  
142) }
```

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