

Converting Colors

$Y_{xy}(17.8883, 0.2324, 0.2435)$

Have a look what the booklet for
Yxy(17.8883, 0.2324, 0.2435)
contains.

Yxy(17.7858, 0.2321, 0.2422)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(17.7858, 0.2321, 0.2422)

Conversions

Conversions Part 1

Format	Color
Hex	5377A6
RGB	83, 119, 166
RGB Percent	33%, 47%, 65%
CMY	0.6746, 0.5333, 0.3491
CMYK	0.50, 0.28, 0.00, 0.35
HSL	214°, 33%, 49%
HSV	214°, 50%, 65%
XYZ	17.0441, 17.7858, 38.6044
YIQ	113.5940, -36.5430, 6.9850

Conversions

Conversions Part 2

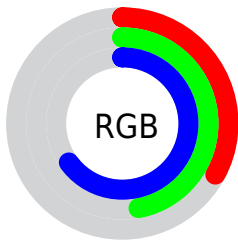
Format	Color
R _Y B	83, 108, 166
Decimal	5470118
CIE Lab	49.24, 0.77, -29.08
CIE LCh	49, 29.090, 271.517
Yxy	17.7858, 0.2321, 0.2422
Android (android.graphics.Color)	4283660198 (0xFF5377A6)
YUV	113.5940, 25.8362, -26.8309
Hunter-Lab	42.1732, -1.6632, -24.7515

Details

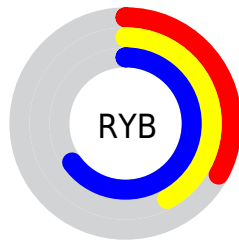
The Yxy color **17.7858, 0.2321, 0.2422** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **24.6823, 0.4104, 0.4010**, and the grayscale version is **16.6278, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.6646, 0.2501, 0.2615**, and **5.9410, 0.2011, 0.2090** is the 20% darker color. If you saturate the color by 10%, you get **14.9932, 0.2164, 0.2209**, and if you desaturate by 10%, it is **20.9814, 0.2485, 0.2625**.

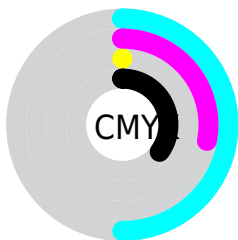
Distribution



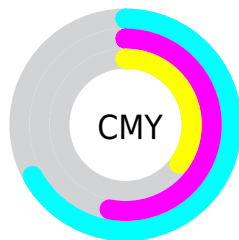
- Red (33%)
- Green (47%)
- Blue (65%)



- Red (33%)
- Yellow (42%)
- Blue (65%)



- Cyan (50%)
- Magenta (28%)
- Yellow (0%)
- Black (35%)



- Cyan (67%)
- Magenta (53%)
- Yellow (35%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 17.7858, 0.2321, 0.2422 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 17.7858, 0.2321, 0.2422 by changing the saturation by 10% instead.

■ 17.7858, 0.2321,
0.2422

■ 17.7858, 0.2321,
0.2422

■ 239.6609, 0.2775,
0.2909

■ 10.7963, 0.2190,
0.2282

■ 39.6720, 0.2499,
0.2612

■ 5.9300, 0.2012,
0.2092

■ 55.3375, 0.2561,
0.2680

■ 2.8026, 0.1759,
0.1823

■ 74.6638, 0.2613,
0.2735

■ 1.0296, 0.1382,
0.1423

■ 98.0353, 0.2656,
0.2781

■ 0.0000, 0.0000,
0.0000

■ 125.8363, 0.2692,
0.2821

158.4513, 0.2724,

0.2854

196.2648, 0.2751,
0.2884

■ 17.7858, 0.2321,
0.2422

■ 17.7858, 0.2321,
0.2422

■ 14.9932, 0.2164,
0.2209

■ 20.9814, 0.2485,
0.2625

■ 12.5823, 0.2021,
0.1992

■ 24.5960, 0.2652,
0.2816

■ 10.5320, 0.1896,
0.1777

■ 28.6471, 0.2816,
0.2990

■ 8.8179, 0.1796,
0.1571

■ 33.1501, 0.2975,
0.3148

■ 7.3943, 0.1717,
0.1379

■ 38.1201, 0.3127,
0.3290

■ 43.5710, 0.3270,
0.3416

■ 49.5163, 0.3403,
0.3527

■ 55.9690, 0.3526,
0.3624

■ 62.9413, 0.3640,
0.3710

Harmonies

Analogous

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



17.7858, 0.2132, 0.2611



17.7858, 0.2321, 0.2422



17.7858, 0.2720, 0.2443

Triad

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



17.7858, 0.2321, 0.2422



17.7858, 0.4182, 0.3414



17.7858, 0.2917, 0.4086

Complementary

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



17.7858, 0.2321, 0.2422



24.6823, 0.4104, 0.4010

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.



17.7858, 0.3467, 0.4310



17.7858, 0.2321, 0.2422



17.7858, 0.4223, 0.3845

Square

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



17.7858, 0.2321, 0.2422



17.7858, 0.3819, 0.2991



17.7858, 0.3950, 0.4190



17.7858, 0.2450, 0.3576

Rectangle

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



17.7858, 0.2321, 0.2422



17.7858, 0.3075, 0.2561



17.7858, 0.3950, 0.4190



17.7858, 0.3099, 0.4200

Sweetspot

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



17.7864, 0.2321, 0.2422



55.7652, 0.2892, 0.3067



30.6807, 0.2736, 0.3971



12.1131, 0.2860, 0.3035



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290

Same Dimension

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



17.7864, 0.2321, 0.2422



26.6996, 0.2148, 0.2185



10.9676, 0.2232, 0.1759



7.8162, 0.2987, 0.3159



5.8245, 0.1721, 0.1396



0.2442, 0.1905, 0.2059

Inverse Universe

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



15.6204, 0.3880, 0.2737



23.4692, 0.4146, 0.2637



35.5561, 0.3802, 0.4497



7.5944, 0.3220, 0.3192



6.6590, 0.5196, 0.2636



0.1724, 0.4387, 0.2190

Previews

White Background



This preview shows how the Yxy color 17.7858, 0.2321, 0.2422 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 17.7858, 0.2321, 0.2422 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

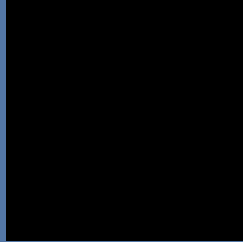
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

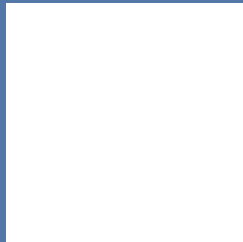
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 17.7858, 0.2321, 0.2422

Background



This preview shows how black text looks on a background with the Yxy color 17.7858, 0.2321, 0.2422.

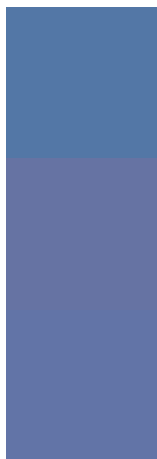


This preview shows how white text looks on a background with the Yxy color 17.7858, 0.2321, 0.2422.

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

17.7858, 0.2321, 0.2422

Protanopia

17.7306, 0.2494, 0.2427

Deuteranopia

17.8775, 0.2428, 0.2378



Tritanopia

17.8330, 0.2497, 0.3081

Trichromacy



Original Color

17.7858, 0.2321, 0.2422

Protanomaly

17.6040, 0.2425, 0.2416

Deuteranomaly

17.8398, 0.2388, 0.2387

Tritanomaly

17.8190, 0.2435, 0.2829

Monochromacy



Original Color

17.7858, 0.2321, 0.2422

Achromatopsia

16.8269, 0.3127, 0.3290

Achromatomaly

17.0678, 0.2782, 0.2954

CSS Examples

Text

The CSS property to change the color of the text to Yxy 17.7858, 0.2321, 0.2422 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(83, 119, 166)` looks like.

```
.text, #text, p{  
    color:rgb(83, 119, 166)  
}
```

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(83, 119, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 119, 166) }
```

Border

The CSS property to change the border of an element to Yxy 17.7858, 0.2321, 0.2422 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(83, 119, 166) }
```

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

```
.border{ border-color:rgb(83, 119, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 119, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 119, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 119, 166);  
box-shadow:4px 4px 4px 4px rgb(83, 119,  
166) }
```


Background

The CSS property to change the background color of an element to Yxy 17.7858, 0.2321, 0.2422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 119, 166) }
```

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

```
.background{ background-color: rgb(83, 119,  
166) }
```

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