

# Converting Colors

$Y_{xy}(20.1443, 0.2288, 0.2462)$

Have a look what the booklet for  
Yxy(20.1443, 0.2288, 0.2462)  
contains.

<b>Yxy(20.2437, 0.2288, 0.2470)</b>	3
<i><b>Conversions</b></i>	4
<i><b>Details</b></i>	6
<i><b>Harmonies</b></i>	12
<i><b>Previews</b></i>	24
<i><b>Color Blindness Simulation</b></i>	27
<i><b>CSS Examples</b></i>	30

# Color

**Yxy(20.2437, 0.2288, 0.2470)**

# Conversions

Conversions Part 1	
Format	Color
Hex	5180AE
RGB	81, 128, 174
RGB Percent	32%, 50%, 68%
CMY	0.6824, 0.4980, 0.3177
CMYK	0.53, 0.26, 0.00, 0.32
HSL	210°, 36%, 50%
HSV	210°, 53%, 68%
XYZ	18.7521, 20.2437, 42.9625
YIQ	119.1910, -42.7780, 4.3420

# Conversions

## Conversions Part 2

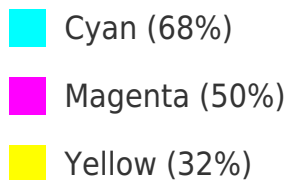
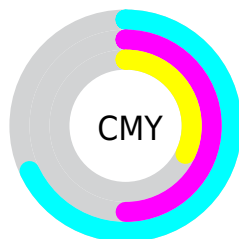
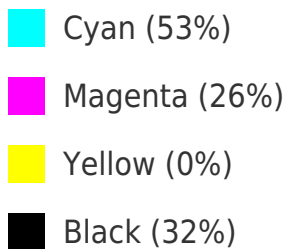
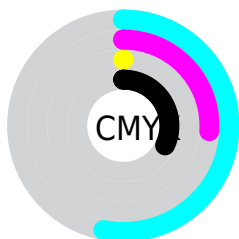
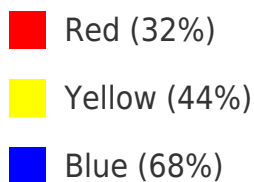
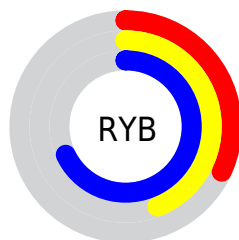
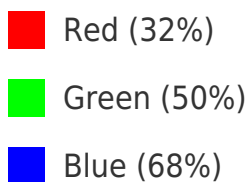
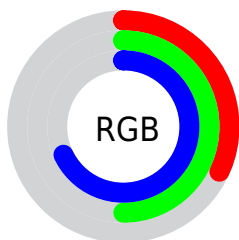
Format	Color
<a href="#">RYB</a>	<a href="#">81, 112, 174</a>
Decimal	<a href="#">5341358</a>
CIELab	<a href="#">52.11, -2.51, -29.26</a>
CIELCh	<a href="#">52, 29.366, 265.100</a>
Yxy	<a href="#">20.2437, 0.2288, 0.2470</a>
Android (android.graphics.Color)	<a href="#">4283531438</a> (0xFF5180AE)
YUV	<a href="#">119.1910, 27.0208, -33.4935</a>
Hunter-Lab	<a href="#">44.9930, -4.3430, -25.1192</a>

# Details

The Yxy color `20.2437, 0.2288, 0.2470` is a dark color, and the websafe version is hex `6699CC`. A complement of this color would be `24.7702, 0.4247, 0.3965`, and the grayscale version is `18.4347, 0.3127, 0.3290`.

A 20% lighter version of the original color is `43.9952, 0.2465, 0.2648`, and `7.1109, 0.1990, 0.2172` is the 20% darker color. If you saturate the color by 10%, you get `17.4210, 0.2145, 0.2282`, and if you desaturate by 10%, it is `23.4552, 0.2442, 0.2650`.

# Distribution





# Brightness & Saturation Gradients


These gradients show how the Yxy color 20.2437, 0.2288, 0.2470 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 20.2437, 0.2288, 0.2470 by changing the saturation by 10% instead.




 20.2437, 0.2288,  
0.2470


 20.2437, 0.2288,  
0.2470


 253.2314, 0.2750,  
0.2925

 12.5723, 0.2159,  
0.2342


 43.8254, 0.2466,  
0.2646


 7.1347, 0.1987,  
0.2168


 60.5045, 0.2530,  
0.2709


 3.5465, 0.1747,  
0.1925


 80.9549, 0.2582,  
0.2761

 1.4233, 0.1398,  
0.1567

 105.5611, 0.2627,  
0.2805

 0.2338, 0.0473,  
0.0686

 134.7075, 0.2664,  
0.2842

 0.0000, 0.0000,  
0.0000

168.7784, 0.2697,

0.2874

208.1582, 0.2725,  
0.2901

■ 20.2437, 0.2288,  
0.2470

■ 20.2437, 0.2288,  
0.2470

■ 17.4210, 0.2145,  
0.2282

■ 23.4552, 0.2442,  
0.2650

■ 14.9649, 0.2017,  
0.2091

■ 27.0716, 0.2601,  
0.2820

■ 12.8536, 0.1910,  
0.1901


■ 31.1106, 0.2762,  
0.2977

■ 11.0609, 0.1825,  
0.1718


■ 35.5879, 0.2921,  
0.3120


■ 10.0259, 0.1779,  
0.1603

■ 40.5184, 0.3075,  
0.3249

 45.9161, 0.3223,  
0.3364

 51.7945, 0.3363,  
0.3466

 58.1663, 0.3494,  
0.3556

 65.0439, 0.3616,  
0.3635

# Harmonies

## Analogous

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



20.2437, 0.2151, 0.2701



20.2437, 0.2288, 0.2470



20.2437, 0.2635, 0.2448

# Triad

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



20.2437, 0.2288, 0.2470



20.2437, 0.4095, 0.3322



20.2437, 0.3038, 0.4132

# Complementary

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



20.2437, 0.2288, 0.2470



24.7702, 0.4247, 0.3965

# 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.



20.2437, 0.3569, 0.4276



20.2437, 0.2288, 0.2470



20.2437, 0.4206, 0.3745

# Square

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



20.2437, 0.2288, 0.2470



20.2437, 0.3691, 0.2921



20.2437, 0.4003, 0.4105



20.2437, 0.2556, 0.3684



# Rectangle

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



20.2437, 0.2288, 0.2470



20.2437, 0.2962, 0.2538



20.2437, 0.4003, 0.4105



20.2437, 0.3216, 0.4219

# Sweetspot

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



20.2444, 0.2288, 0.2470



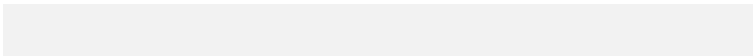
62.1692, 0.2877, 0.3081



33.5260, 0.2758, 0.4147



13.4504, 0.2845, 0.3052



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



20.2444, 0.2288, 0.2470



30.8041, 0.2122, 0.2250



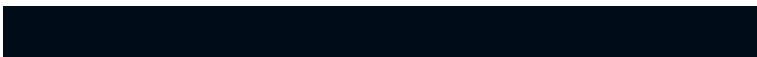
10.9231, 0.2122, 0.1644



8.4011, 0.2986, 0.3175



7.3910, 0.1784, 0.1622



0.3150, 0.1937, 0.2173



# Inverse Universe

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



16.4419, 0.3853, 0.2608



24.6829, 0.4101, 0.2494



39.2688, 0.3899, 0.4533



8.0804, 0.3210, 0.3176



7.0492, 0.4903, 0.2475



0.2071, 0.4262, 0.2121



# Previews

## White Background



This preview shows how the Yxy color 20.2437, 0.2288, 0.2470 looks on a white 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



# Black Background



This preview shows how the Yxy color 20.2437, 0.2288, 0.2470 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

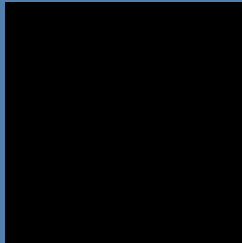
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

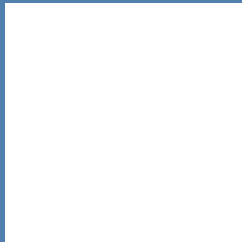
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 20.2437, 0.2288, 0.2470**

## Background



This preview shows how black text looks on a background with the Yxy color 20.2437, 0.2288, 0.2470.

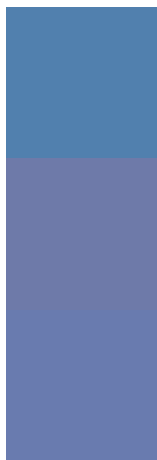


This preview shows how white text looks on a background with the Yxy color 20.2437, 0.2288, 0.2470.

# 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

20.2437, 0.2288, 0.2470

### Protanopia

20.0986, 0.2538, 0.2482

### Deuteranopia

20.2643, 0.2449, 0.2404



## Tritanopia

20.3659, 0.2440, 0.3090

# Trichromacy



## Original Color

20.2437, 0.2288, 0.2470

## Protanomaly

20.0082, 0.2431, 0.2468

## Deuteranomaly

20.2492, 0.2381, 0.2423

## Tritanomaly

20.3249, 0.2381, 0.2848

# Monochromacy



## Original Color

20.2437, 0.2288, 0.2470

## Achromatopsia

18.4475, 0.3127, 0.3290

## Achromatomaly

18.7864, 0.2753, 0.2965

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.2437, 0.2288, 0.2470 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(81, 128, 174) looks like.

```
.text, #text, p{  
    color:rgb(81, 128, 174)  
}
```

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(81, 128, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 128, 174) }
```

## Border

The CSS property to change the border of an element to Yxy 20.2437, 0.2288, 0.2470 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(81, 128, 174) }
```

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

```
.border{ border-color:rgb(81, 128, 174) }
```

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

Here you see how a box with a 4 pixel rgb(81, 128, 174) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 128, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 128, 174);  
box-shadow:4px 4px 4px 4px rgb(81, 128,  
174) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.2437, 0.2288, 0.2470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 128, 174) }
```

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

```
.background{ background-color: rgb(81, 128,  
174) }
```

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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