

# Converting Colors

$Y_{xy}(20.0896, 0.2197, 0.2711)$

Have a look what the booklet for  
Yxy(20.0896, 0.2197, 0.2711)  
contains.

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# Color

**$\text{Yxy}(20.0724, 0.2198, 0.2712)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3185A3
RGB	49, 133, 163
RGB Percent	19%, 52%, 64%
CMY	0.8076, 0.4785, 0.3607
CMYK	0.70, 0.18, 0.00, 0.36
HSL	196°, 54%, 42%
HSV	196°, 70%, 64%
XYZ	16.2681, 20.0724, 37.6728
YIQ	111.3040, -59.6940, -8.4780

# Conversions

## Conversions Part 2

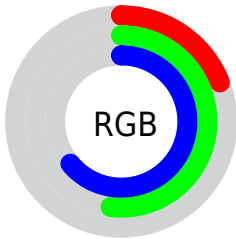
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	49, 97, 163
Decimal	3245475
CIE Lab	51.92, -15.14, -23.30
CIE LCh	52, 27.792, 236.984
Yxy	20.0724, 0.2198, 0.2712
Android (android.graphics.Color)	4281435555 (0xFF3185A3)
YUV	111.3040, 25.4861, -54.6406
Hunter-Lab	44.8022, -13.5889, -18.4935

# Details

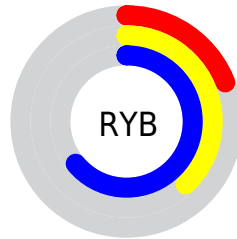
The Yxy color **20.0724, 0.2198, 0.2712** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **13.6148, 0.5038, 0.3715**, and the grayscale version is **15.9325, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.4310, 0.2391, 0.2843**, and **7.3342, 0.2026, 0.2491** is the 20% darker color. If you saturate the color by 10%, you get **18.5860, 0.2116, 0.2615**, and if you desaturate by 10%, it is **21.7550, 0.2298, 0.2808**.

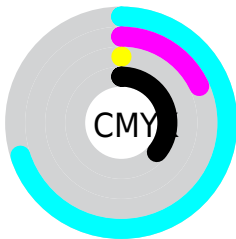
# Distribution



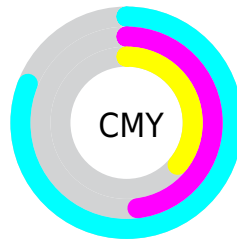
- Red (19%)
- Green (52%)
- Blue (64%)



- Red (19%)
- Yellow (38%)
- Blue (64%)



- Cyan (70%)
- Magenta (18%)
- Yellow (0%)
- Black (36%)



- Cyan (81%)
- Magenta (48%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.0724, 0.2198, 0.2712 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 20.0724, 0.2198, 0.2712 by changing the saturation by 10% instead.



20.0724, 0.2198,  
0.2712

20.0724, 0.2198,  
0.2712

252.3068, 0.2707,  
0.3047

12.4477, 0.2057,  
0.2611

43.5385, 0.2394,  
0.2846

7.0493, 0.1867,  
0.2469

60.1487, 0.2464,  
0.2893

3.4930, 0.1604,  
0.2259

80.5229, 0.2522,  
0.2931

1.3942, 0.1222,  
0.1925

105.0454, 0.2571,  
0.2962

0.2124, 0.0000,  
0.0893

134.1007, 0.2613,  
0.2989

0.0000, 0.0000,  
0.0000

168.0730, 0.2649,

0.3011

207.3470, 0.2680,  
0.3031

■ 20.0724, 0.2198,  
0.2712

■ 20.0724, 0.2198,  
0.2712

■ 18.5860, 0.2116,  
0.2615

■ 21.7550, 0.2298,  
0.2808

■ 17.2763, 0.2054,  
0.2518

■ 23.6463, 0.2414,  
0.2901

■ 16.1056, 0.2006,  
0.2421

■ 25.7603, 0.2543,  
0.2990

■ 16.0940, 0.2006,  
0.2420

■ 28.1085, 0.2682,  
0.3075

■ 30.7021, 0.2828,  
0.3153

■ 33.5509, 0.2978,  
0.3225

■ 36.6646, 0.3129,  
0.3291

■ 40.0519, 0.3278,  
0.3350

■ 43.7214, 0.3424,  
0.3402

# Harmonies

## Analogous

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



20.0724, 0.2272, 0.3116



20.0724, 0.2198, 0.2712



20.0724, 0.2342, 0.2502

# Triad

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



20.0724, 0.2198, 0.2712



20.0724, 0.3693, 0.2961



20.0724, 0.3519, 0.4225

# Complementary

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



20.0724, 0.2198, 0.2712



13.6148, 0.5038, 0.3715

# 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.



20.0724, 0.3940, 0.4084



20.0724, 0.2198, 0.2712



20.0724, 0.4061, 0.3349

# Square

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



20.0724, 0.2198, 0.2712



20.0724, 0.3177, 0.2657



20.0724, 0.4149, 0.3752



20.0724, 0.3013, 0.4065



# Rectangle

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



20.0724, 0.2198, 0.2712



20.0724, 0.2552, 0.2473



20.0724, 0.4149, 0.3752



20.0724, 0.3676, 0.4208

# Sweetspot

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



20.0731, 0.2198, 0.2712



54.2546, 0.2806, 0.3142



27.3972, 0.2875, 0.5008



11.9065, 0.2768, 0.3122



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



20.0731, 0.2198, 0.2712



31.9164, 0.2079, 0.2560



8.6853, 0.1921, 0.1578



7.6940, 0.2987, 0.3229



12.5827, 0.2008, 0.2429



0.3348, 0.2105, 0.2777



# Inverse Universe

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



11.6836, 0.3684, 0.2105



17.7912, 0.3851, 0.1992



25.2064, 0.4335, 0.4504



7.1702, 0.3176, 0.3126



7.1143, 0.3993, 0.1973



0.1566, 0.3656, 0.1788



# Previews

## White Background



This preview shows how the Yxy color 20.0724, 0.2198, 0.2712 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 20.0724, 0.2198, 0.2712 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

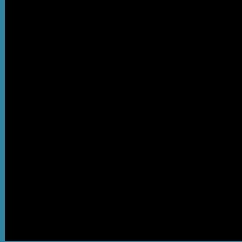
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.0724, 0.2198, 0.2712**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.0724, 0.2198, 0.2712.

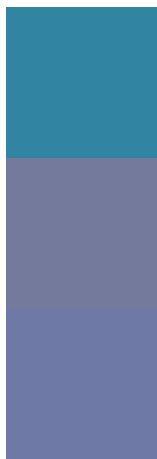


This preview shows how white text looks on a background with the Yxy color 20.0724, 0.2198, 0.2712.

# 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

20.0724, 0.2198, 0.2712

### Protanopia

19.9305, 0.2707, 0.2705

### Deuteranopia

19.8074, 0.2569, 0.2510



## Tritanopia

20.1270, 0.2263, 0.3063

# Trichromacy



**Original Color**

20.0724, 0.2198, 0.2712

**Protanomaly**

19.6145, 0.2467, 0.2696

**Deuteranomaly**

19.4586, 0.2388, 0.2560

**Tritanomaly**

20.1201, 0.2237, 0.2929

# Monochromacy



**Original Color**

20.0724, 0.2198, 0.2712

**Achromatopsia**

15.8961, 0.3127, 0.3290

**Achromatomaly**

16.8801, 0.2657, 0.3062

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.0724, 0.2198, 0.2712 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(49, 133, 163)` looks like.

```
.text, #text, p{  
    color:rgb(49, 133, 163)  
}
```

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(49, 133, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 133, 163) }
```

## Border

The CSS property to change the border of an element to Yxy 20.0724, 0.2198, 0.2712 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(49, 133, 163) }
```

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

```
.border{ border-color:rgb(49, 133, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 133, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 133, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 133, 163);  
box-shadow:4px 4px 4px 4px rgb(49, 133,  
163) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.0724, 0.2198, 0.2712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 133, 163) }
```

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

```
.background{ background-color: rgb(49, 133,  
163) }
```

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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