

# Converting Colors

$Y_{xy}(20.8460, 0.2168, 0.2812)$

Have a look what the booklet for  
Yxy(20.8460, 0.2168, 0.2812)  
contains.

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# Color

**Yxy(20.8233, 0.2167, 0.2804)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2189A2
RGB	33, 137, 162
RGB Percent	13%, 54%, 64%
CMY	0.8707, 0.4627, 0.3648
CMYK	0.80, 0.15, 0.00, 0.36
HSL	192°, 66%, 38%
HSV	192°, 80%, 64%
XYZ	16.0928, 20.8233, 37.3468
YIQ	108.7540, -70.0090, -14.2730

# Conversions

## Conversions Part 2

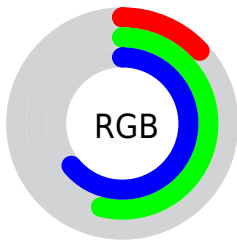
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 91, 162
Decimal	2197922
CIE <sub>Lab</sub>	52.76, -19.75, -21.46
CIE <sub>LCh</sub>	53, 29.162, 227.370
Yxy	20.8233, 0.2167, 0.2804
Android (android.graphics.Color)	4280388002 (0xFF2189A2)
YUV	108.7540, 26.2503, -66.4363
Hunter-Lab	45.6326, -16.9072, -16.5816

# Details

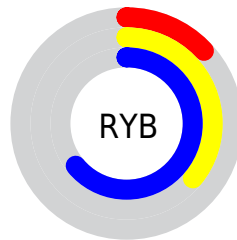
The Yxy color **20.8233, 0.2167, 0.2804** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **10.8121, 0.5535, 0.3587**, and the grayscale version is **15.1577, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.9807, 0.2367, 0.2925**, and **7.9422, 0.2066, 0.2637** is the 20% darker color. If you saturate the color by 10%, you get **19.7392, 0.2114, 0.2735**, and if you desaturate by 10%, it is **22.0634, 0.2239, 0.2873**.

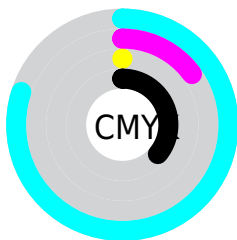
# Distribution



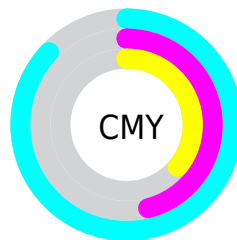
- Red (13%)
- Green (54%)
- Blue (64%)



- Red (13%)
- Yellow (36%)
- Blue (64%)



- Cyan (80%)
- Magenta (15%)
- Yellow (0%)
- Black (36%)



- Cyan (87%)
- Magenta (46%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.8233, 0.2167, 0.2804 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 20.8233, 0.2167, 0.2804 by changing the saturation by 10% instead.



20.8233, 0.2167,  
0.2804

20.8233, 0.2167,  
0.2804

256.3379, 0.2690,  
0.3090

12.9949, 0.2023,  
0.2716

44.7933, 0.2367,  
0.2920

7.4250, 0.1831,  
0.2590

61.7036, 0.2439,  
0.2960

3.7293, 0.1566,  
0.2403

82.4101, 0.2499,  
0.2992

1.5233, 0.1184,  
0.2098

107.2971, 0.2550,  
0.3019

0.3051, 0.0000,  
0.1259

136.7490, 0.2592,  
0.3041

0.0000, 0.0000,  
0.0000

171.1501, 0.2630,

0.3060

210.8850, 0.2662,  
0.3076

■ 20.8233, 0.2167,  
0.2804

■ 20.8233, 0.2167,  
0.2804

■ 19.7392, 0.2114,  
0.2735

■ 22.0634, 0.2239,  
0.2873

■ 18.7726, 0.2075,  
0.2666

■ 23.4738, 0.2330,  
0.2942

■ 18.7384, 0.2073,  
0.2664

■ 25.0693, 0.2437,  
0.3009

■ 26.8626, 0.2559,  
0.3073

■ 28.8648, 0.2692,  
0.3134

■ 31.0864, 0.2834,  
0.3191

■ 33.5369, 0.2982,  
0.3244

■ 36.2254, 0.3133,  
0.3292

■ 39.1602, 0.3284,  
0.3335

# Harmonies

## Analogous

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



20.8233, 0.2315, 0.3275



20.8233, 0.2167, 0.2804



20.8233, 0.2245, 0.2521

# Triad

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



20.8233, 0.2167, 0.2804



20.8233, 0.3549, 0.2836



20.8233, 0.3687, 0.4243

# Complementary

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



20.8233, 0.2167, 0.2804



10.8121, 0.5535, 0.3587

# 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.



20.8233, 0.4067, 0.4014



20.8233, 0.2167, 0.2804



20.8233, 0.4000, 0.3215

# Square

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



20.8233, 0.2167, 0.2804



20.8233, 0.3005, 0.2563



20.8233, 0.4192, 0.3634



20.8233, 0.3176, 0.4186



# Rectangle

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



20.8233, 0.2167, 0.2804



20.8233, 0.2417, 0.2449



20.8233, 0.4192, 0.3634



20.8233, 0.3835, 0.4192

# Sweetspot

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



20.8240, 0.2167, 0.2804



54.4514, 0.2765, 0.3164



26.4507, 0.2919, 0.5409



11.9258, 0.2717, 0.3144



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.



20.8240, 0.2167, 0.2804



34.4115, 0.2083, 0.2679



7.8066, 0.1823, 0.1485



7.7771, 0.2988, 0.3245



14.8252, 0.2075, 0.2670



0.3679, 0.2144, 0.2918



# Inverse Universe

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



10.5730, 0.3616, 0.1916



17.1191, 0.3747, 0.1853



21.4973, 0.4594, 0.4483



7.1786, 0.3166, 0.3111



7.3407, 0.3757, 0.1843



0.1599, 0.3527, 0.1717



# Previews

## White Background



This preview shows how the Yxy color 20.8233, 0.2167, 0.2804 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 20.8233, 0.2167, 0.2804 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

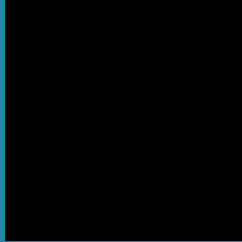
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.8233, 0.2167, 0.2804**

## Background



This preview shows how black text looks on a background with the Yxy color 20.8233, 0.2167, 0.2804.



This preview shows how white text looks on a background with the Yxy color 20.8233, 0.2167, 0.2804.

# 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

20.8233, 0.2167, 0.2804

### Protanopia

20.6371, 0.2770, 0.2780

### Deuteranopia

20.5955, 0.2630, 0.2570



## Tritanopia

20.7958, 0.2208, 0.3064

# Trichromacy



## Original Color

20.8233, 0.2167, 0.2804

## Protanomaly

20.1755, 0.2467, 0.2785

## Deuteranomaly

20.0971, 0.2390, 0.2631

## Tritanomaly

20.6922, 0.2191, 0.2968

# Monochromacy



## Original Color

20.8233, 0.2167, 0.2804

## Achromatopsia

15.2926, 0.3127, 0.3290

## Achromatomaly

16.5015, 0.2607, 0.3098

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.8233, 0.2167, 0.2804 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(33, 137, 162)` looks like.

```
.text, #text, p{  
    color:rgb(33, 137, 162)  
}
```

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(33, 137, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 137, 162) }
```

## Border

The CSS property to change the border of an element to Yxy 20.8233, 0.2167, 0.2804 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(33, 137, 162) }
```

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

```
.border{ border-color:rgb(33, 137, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 137, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 137, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 137, 162);  
box-shadow:4px 4px 4px 4px rgb(33, 137,  
162) }
```



# Background

The CSS property to change the background color of an element to Yxy 20.8233, 0.2167, 0.2804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 137, 162) }
```

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

```
.background{ background-color: rgb(33, 137,  
162) }
```

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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