

# Converting Colors

$Y_{xy}(18.3839, 0.2126, 0.2638)$

Have a look what the booklet for  
Yxy(18.3839, 0.2126, 0.2638)  
contains.

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# Color

**Yxy(18.3349, 0.2124, 0.2635)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2180A1
RGB	33, 128, 161
RGB Percent	13%, 50%, 63%
CMY	0.8703, 0.4980, 0.3687
CMYK	0.79, 0.20, 0.00, 0.37
HSL	195°, 66%, 38%
HSV	195°, 79%, 63%
XYZ	14.7793, 18.3349, 36.4680
YIQ	103.3570, -67.2130, -9.8770

# Conversions

## Conversions Part 2

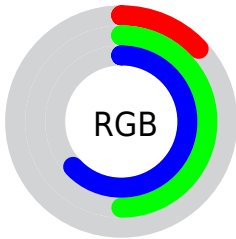
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 88, 161
Decimal	2195617
CIE <sub>Lab</sub>	49.90, -15.18, -25.27
CIE <sub>LCh</sub>	50, 29.482, 239.006
Yxy	18.3349, 0.2124, 0.2635
Android (android.graphics.Color)	4280385697 (0xFF2180A1)
YUV	103.3570, 28.4180, -61.7031
Hunter-Lab	42.8193, -13.3237, -20.5222

# Details

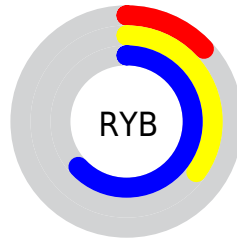
The Yxy color **18.3349, 0.2124, 0.2635** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **11.5870, 0.5407, 0.3702**, and the grayscale version is **13.6049, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.6583, 0.2337, 0.2790**, and **6.6961, 0.2004, 0.2416** is the 20% darker color. If you saturate the color by 10%, you get **17.0693, 0.2061, 0.2540**, and if you desaturate by 10%, it is **19.7732, 0.2206, 0.2730**.

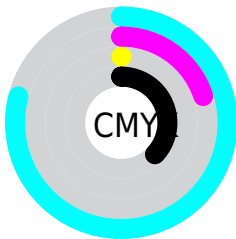
# Distribution



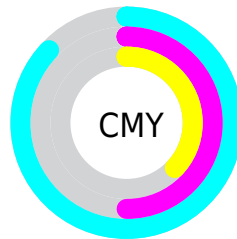
- Red (13%)
- Green (50%)
- Blue (63%)



- Red (13%)
- Yellow (35%)
- Blue (63%)



- Cyan (79%)
- Magenta (20%)
- Yellow (0%)
- Black (37%)



- Cyan (87%)
- Magenta (50%)
- Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.3349, 0.2124, 0.2635 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 18.3349, 0.2124, 0.2635 by changing the saturation by 10% instead.



18.3349, 0.2124,  
0.2635

18.3349, 0.2124,  
0.2635

242.7520, 0.2679,  
0.3018

11.1907, 0.1969,  
0.2518

40.6072, 0.2338,  
0.2789

6.1952, 0.1761,  
0.2354

56.5040, 0.2415,  
0.2843

2.9642, 0.1471,  
0.2110

76.0872, 0.2478,  
0.2886

1.1131, 0.1042,  
0.1729

99.7411, 0.2531,  
0.2922

0.0000, 0.0000,  
0.0000

127.8502, 0.2576,  
0.2952

160.7987, 0.2615,

0.2977

198.9712, 0.2649,  
0.2999

■ 18.3349, 0.2124,  
0.2635

■ 18.3349, 0.2124,  
0.2635

■ 17.0693, 0.2061,  
0.2540

■ 19.7732, 0.2206,  
0.2730

■ 15.9390, 0.2014,  
0.2446

■ 21.3988, 0.2306,  
0.2823

■ 15.8794, 0.2012,  
0.2441

■ 23.2265, 0.2422,  
0.2914

■ 25.2688, 0.2551,  
0.3001

■ 27.5372, 0.2690,  
0.3083

■ 30.0420, 0.2835,  
0.3159

■ 32.7931, 0.2985,  
0.3230

■ 35.7995, 0.3135,  
0.3293

■ 39.0699, 0.3285,  
0.3351

# Harmonies

## Analogous

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



18.3349, 0.2186, 0.3060



18.3349, 0.2124, 0.2635



18.3349, 0.2294, 0.2427

# Triad

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



18.3349, 0.2124, 0.2635



18.3349, 0.3780, 0.2957



18.3349, 0.3513, 0.4316

# Complementary

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



18.3349, 0.2124, 0.2635



11.5870, 0.5407, 0.3702

# 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.



18.3349, 0.3985, 0.4170



18.3349, 0.2124, 0.2635



18.3349, 0.4166, 0.3377

# Square

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



18.3349, 0.2124, 0.2635



18.3349, 0.3218, 0.2622



18.3349, 0.4236, 0.3812



18.3349, 0.2961, 0.4121



# Rectangle

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



18.3349, 0.2124, 0.2635



18.3349, 0.2529, 0.2408



18.3349, 0.4236, 0.3812



18.3349, 0.3687, 0.4301

# Sweetspot

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



18.3355, 0.2124, 0.2635



51.5235, 0.2762, 0.3122



26.1890, 0.2875, 0.5256



10.9758, 0.2713, 0.3096



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



18.3355, 0.2124, 0.2635



29.0904, 0.2027, 0.2472



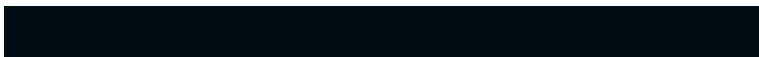
6.6829, 0.1785, 0.1332



7.7007, 0.2987, 0.3231



12.7541, 0.2014, 0.2449



0.3374, 0.2108, 0.2788



# Inverse Universe

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



10.2250, 0.3771, 0.2015



16.2616, 0.3948, 0.1969



23.3859, 0.4478, 0.4589



7.1708, 0.3175, 0.3125



7.1317, 0.3973, 0.1963



0.1569, 0.3645, 0.1782



# Previews

## White Background



This preview shows how the Yxy color 18.3349, 0.2124, 0.2635 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 18.3349, 0.2124, 0.2635 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

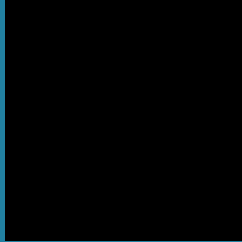
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.3349, 0.2124, 0.2635**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.3349, 0.2124, 0.2635.

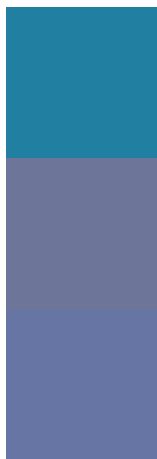


This preview shows how white text looks on a background with the Yxy color 18.3349, 0.2124, 0.2635.

# 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

18.3349, 0.2124, 0.2635

### Protanopia

18.2737, 0.2654, 0.2634

### Deuteranopia

18.2865, 0.2500, 0.2451

# Trichromacy



## Original Color

18.3349, 0.2124, 0.2635

## Protanomaly

17.8244, 0.2384, 0.2618

## Deuteranomaly

17.9388, 0.2312, 0.2500

# Monochromacy



## Original Color

18.3349, 0.2124, 0.2635

## Achromatopsia

13.5633, 0.3127, 0.3290

## Achromatomaly

14.6633, 0.2594, 0.3025

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.3349, 0.2124, 0.2635 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, 128, 161)` looks like.

```
.text, #text, p{  
    color:rgb(33, 128, 161)  
}
```

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, 128, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 128, 161) }
```

## Border

The CSS property to change the border of an element to Yxy 18.3349, 0.2124, 0.2635 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, 128, 161) }
```

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

```
.border{ border-color:rgb(33, 128, 161) }
```

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

Here you see how a box with a 4 pixel rgb(33, 128, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 128, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 128, 161);  
box-shadow:4px 4px 4px 4px rgb(33, 128,  
161) }
```

# Background

The CSS property to change the background color of an element to Yxy 18.3349, 0.2124, 0.2635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 128, 161) }
```

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

```
.background{ background-color: rgb(33, 128,  
161) }
```

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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