

# Converting Colors

$Y_{xy}(12.3061, 0.2031, 0.2131)$

Have a look what the booklet for  
Yxy(12.3061, 0.2031, 0.2131)  
contains.

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# Color

**Yxy(12.2339, 0.2031, 0.2125)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2A659D
RGB	42, 101, 157
RGB Percent	16%, 40%, 62%
CMY	0.8355, 0.6039, 0.3843
CMYK	0.73, 0.36, 0.00, 0.38
HSL	209°, 58%, 39%
HSV	209°, 73%, 62%
XYZ	11.6927, 12.2339, 33.6447
YIQ	89.7430, -53.1400, 4.9080

# Conversions

## Conversions Part 2

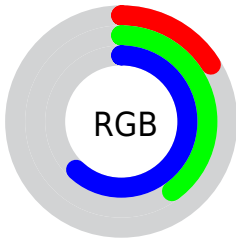
Format	Color
R <sub>Y</sub> B	42, 81, 157
Decimal	2778525
CIE Lab	41.59, 0.46, -35.93
CIE LCh	42, 35.930, 270.734
Yxy	12.2339, 0.2031, 0.2125
Android (android.graphics.Color)	4280968605 (0xFF2A659D)
YUV	89.7430, 33.1577, -41.8706
Hunter-Lab	34.9770, -1.5376, -32.5477

# Details

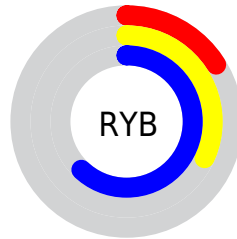
The Yxy color **12.2339, 0.2031, 0.2125** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **16.0604, 0.4785, 0.4113**, and the grayscale version is **10.0947, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0347, 0.2284, 0.2399**, and **3.7523, 0.1817, 0.1741** is the 20% darker color. If you saturate the color by 10%, you get **10.5504, 0.1924, 0.1939**, and if you desaturate by 10%, it is **14.1859, 0.2158, 0.2312**.

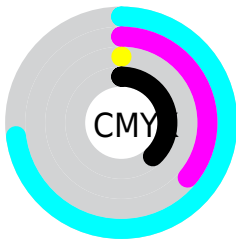
# Distribution



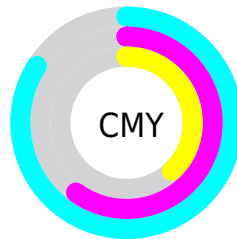
- Red (16%)
- Green (40%)
- Blue (62%)



- Red (16%)
- Yellow (32%)
- Blue (62%)



- Cyan (73%)
- Magenta (36%)
- Yellow (0%)
- Black (38%)



- Cyan (84%)
- Magenta (60%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2339, 0.2031, 0.2125 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 12.2339, 0.2031, 0.2125 by changing the saturation by 10% instead.



■ 12.2339, 0.2031,  
0.2125

■ 12.2339, 0.2031,  
0.2125

■ 205.9477, 0.2668,  
0.2801

■ 6.9032, 0.1842,  
0.1925

■ 29.9204, 0.2285,  
0.2394

■ 3.4016, 0.1585,  
0.1653

■ 43.0450, 0.2373,  
0.2488

■ 1.3448, 0.1225,  
0.1274

■ 59.5363, 0.2445,  
0.2564

■ 0.1755, 0.0413,  
0.0407

■ 79.7787, 0.2505,  
0.2628

■ 0.0000, 0.0000,  
0.0000

■ 104.1567, 0.2556,  
0.2681

■ 133.0546, 0.2598,

0.2727

166.8568, 0.2635,  
0.2766

■ 12.2339, 0.2031,  
0.2125

■ 12.2339, 0.2031,  
0.2125

■ 10.5504, 0.1924,  
0.1939

■ 14.1859, 0.2158,  
0.2312

■ 9.1142, 0.1839,  
0.1760

■ 16.4222, 0.2300,  
0.2495

■ 8.2586, 0.1790,  
0.1643

■ 18.9587, 0.2452,  
0.2670

■ 21.8093, 0.2609,  
0.2835

■ 24.9869, 0.2769,  
0.2987

■ 28.5036, 0.2926,  
0.3126

■ 32.3708, 0.3078,  
0.3252

■ 36.5992, 0.3225,  
0.3364

■ 41.1991, 0.3363,  
0.3464

# Harmonies

## Analogous

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



12.2339, 0.1798, 0.2357



12.2339, 0.2031, 0.2125



12.2339, 0.2542, 0.2159

# Triad

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



12.2339, 0.2031, 0.2125



12.2339, 0.4595, 0.3400



12.2339, 0.2829, 0.4462

# Complementary

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



12.2339, 0.2031, 0.2125



16.0604, 0.4785, 0.4113

# 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.



12.2339, 0.3576, 0.4738



12.2339, 0.2031, 0.2125



12.2339, 0.4638, 0.3975

# Square

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



12.2339, 0.2031, 0.2125



12.2339, 0.4074, 0.2857



12.2339, 0.4242, 0.4488



12.2339, 0.2203, 0.3706



# Rectangle

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



12.2339, 0.2031, 0.2125



12.2339, 0.3020, 0.2310



12.2339, 0.4242, 0.4488



12.2339, 0.3074, 0.4620

# Sweetspot

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



12.2343, 0.2031, 0.2125



45.2631, 0.2782, 0.3000



25.4798, 0.2702, 0.4531



9.6348, 0.2743, 0.2963



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290



# Same Dimension

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



12.2343, 0.2031, 0.2125



17.1959, 0.1867, 0.1823



4.7170, 0.1762, 0.1047



6.9700, 0.2988, 0.3178



6.7817, 0.1793, 0.1656



0.2058, 0.1988, 0.2357



# Inverse Universe

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



9.7605, 0.4255, 0.2432



14.7862, 0.4639, 0.2413



30.8065, 0.4096, 0.4842



6.7001, 0.3208, 0.3176



6.3068, 0.4861, 0.2452



0.1213, 0.4067, 0.2014



# Previews

## White Background



This preview shows how the Yxy color 12.2339, 0.2031, 0.2125 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 12.2339, 0.2031, 0.2125 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

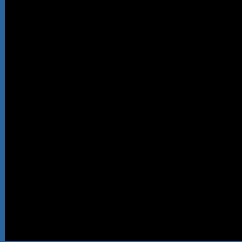
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 12.2339, 0.2031, 0.2125**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.2339, 0.2031, 0.2125.

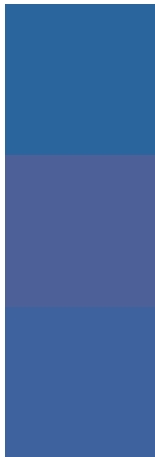


This preview shows how white text looks on a background with the Yxy color 12.2339, 0.2031, 0.2125.

# 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

12.2339, 0.2031, 0.2125

### Protanopia

12.2105, 0.2285, 0.2161

### Deuteranopia

12.2281, 0.2130, 0.2080



## Tritanopia

12.2216, 0.2190, 0.3084

# Trichromacy



**Original Color**

12.2339, 0.2031, 0.2125

**Protanomaly**

12.1584, 0.2170, 0.2143

**Deuteranomaly**

12.2045, 0.2088, 0.2087

**Tritanomaly**

12.0756, 0.2103, 0.2669

# Monochromacy



**Original Color**

12.2339, 0.2031, 0.2125

**Achromatopsia**

10.2242, 0.3127, 0.3290

**Achromatomaly**

10.6368, 0.2584, 0.2808

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  12.2339, 0.2031, 0.2125 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(42, 101, 157)` looks like.

```
.text, #text, p{  
    color:rgb(42, 101, 157)  
}
```

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(42, 101, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 101, 157) }
```

## Border

The CSS property to change the border of an element to Yxy 12.2339, 0.2031, 0.2125 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(42, 101, 157) }
```

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

```
.border{ border-color:rgb(42, 101, 157) }
```

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

Here you see how a box with a 4 pixel rgb(42, 101, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 101, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 101, 157);  
box-shadow:4px 4px 4px 4px rgb(42, 101,  
157) }
```



# Background

The CSS property to change the background color of an element to Yxy 12.2339, 0.2031, 0.2125 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 101, 157) }
```

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

```
.background{ background-color: rgb(42, 101,  
157) }
```

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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