

# Converting Colors

$Y_{xy}(12.9484, 0.2256, 0.2167)$

Have a look what the booklet for  
Yxy(12.9484, 0.2256, 0.2167)  
contains.

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# Color

**$\text{Yxy}(13.0511, 0.2262, 0.2181)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	4C649C
RGB	76, 100, 156
RGB Percent	30%, 39%, 61%
CMY	0.7021, 0.6078, 0.3883
CMYK	0.51, 0.36, 0.00, 0.39
HSL	222°, 34%, 45%
HSV	222°, 51%, 61%
XYZ	13.5358, 13.0511, 33.2531
YIQ	99.2080, -32.2800, 12.3280

# Conversions

## Conversions Part 2

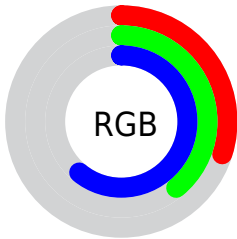
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	76, 94, 156
Decimal	5006492
CIE <sub>Lab</sub>	42.84, 7.49, -33.24
CIE <sub>LCh</sub>	43, 34.069, 282.693
Yxy	13.0511, 0.2262, 0.2181
Android (android.graphics.Color)	4283196572 (0xFF4C649C)
YUV	99.2080, 27.9985, -20.3534
Hunter-Lab	36.1263, 3.6593, -29.2861

# Details

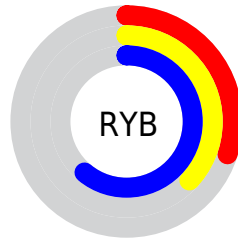
The Yxy color **13.0511, 0.2262, 0.2181** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **24.0778, 0.4038, 0.4181**, and the grayscale version is **12.4657, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.5035, 0.2463, 0.2434**, and **3.7664, 0.1897, 0.1756** is the 20% darker color. If you saturate the color by 10%, you get **10.5332, 0.2090, 0.1919**, and if you desaturate by 10%, it is **16.0053, 0.2441, 0.2435**.

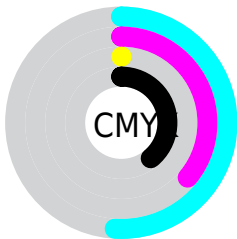
# Distribution



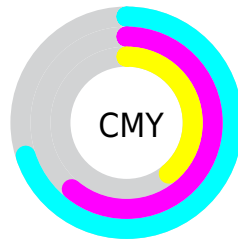
- Red (30%)
- Green (39%)
- Blue (61%)



- Red (30%)
- Yellow (37%)
- Blue (61%)



- Cyan (51%)
- Magenta (36%)
- Yellow (0%)
- Black (39%)



- Cyan (70%)
- Magenta (61%)
- Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.0511, 0.2262, 0.2181 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 13.0511, 0.2262, 0.2181 by changing the saturation by 10% instead.



■ 13.0511, 0.2262,  
0.2181

■ 13.0511, 0.2262,  
0.2181

■ 211.2449, 0.2770,  
0.2814

■ 7.4637, 0.2107,  
0.1996

■ 31.3956, 0.2467,  
0.2431

■ 3.7538, 0.1891,  
0.1745

■ 44.9214, 0.2537,  
0.2519

■ 1.5368, 0.1576,  
0.1391

■ 61.8623, 0.2595,  
0.2591

■ 0.3144, 0.1034,  
0.0675

■ 82.6025, 0.2642,  
0.2651

■ 0.0000, 0.0000,  
0.0000

■ 107.5265, 0.2682,  
0.2701

137.0186, 0.2715,

0.2744

171.4633, 0.2744,  
0.2782

■ 13.0511, 0.2262,  
0.2181

■ 13.0511, 0.2262,  
0.2181

■ 10.5332, 0.2090,  
0.1919

■ 16.0053, 0.2441,  
0.2435

■ 8.4277, 0.1931,  
0.1659

■ 19.4151, 0.2619,  
0.2673

■ 6.7103, 0.1795,  
0.1412

■ 23.3003, 0.2792,  
0.2893

■ 5.3531, 0.1689,  
0.1189

■ 27.6789, 0.2956,  
0.3091

■ 4.4217, 0.1617,  
0.1020

■ 32.5682, 0.3108,  
0.3269

■ 37.9843, 0.3249,  
0.3425

■ 43.9429, 0.3377,  
0.3563

■ 50.4587, 0.3494,  
0.3684

■ 57.5462, 0.3599,  
0.3789

# Harmonies

## Analogous

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



13.0511, 0.1934, 0.2299



13.0511, 0.2262, 0.2181



13.0511, 0.2841, 0.2301

# Triad

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



13.0511, 0.2262, 0.2181



13.0511, 0.4564, 0.3620



13.0511, 0.2598, 0.4126

# Complementary

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



13.0511, 0.2262, 0.2181



24.0778, 0.4038, 0.4181

# 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.



13.0511, 0.3275, 0.4590



13.0511, 0.2262, 0.2181



13.0511, 0.4435, 0.4149

# Square

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



13.0511, 0.2262, 0.2181



13.0511, 0.4244, 0.3086



13.0511, 0.3949, 0.4546



13.0511, 0.2099, 0.3365



# Rectangle

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



13.0511, 0.2262, 0.2181



13.0511, 0.3327, 0.2496



13.0511, 0.3949, 0.4546



13.0511, 0.2812, 0.4332

# Sweetspot

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



13.0516, 0.2262, 0.2181



46.9885, 0.2891, 0.3014



26.9379, 0.2651, 0.3771



9.9982, 0.2859, 0.2976



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.



13.0516, 0.2262, 0.2181



18.3383, 0.2058, 0.1869



9.7711, 0.2326, 0.1767



6.7440, 0.2988, 0.3129



3.6974, 0.1620, 0.1032



0.1351, 0.1830, 0.1789



# Inverse Universe

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



13.1523, 0.4099, 0.2899



19.4679, 0.4471, 0.2834



29.9855, 0.3696, 0.4574



6.6773, 0.3239, 0.3223



5.9955, 0.5710, 0.2919

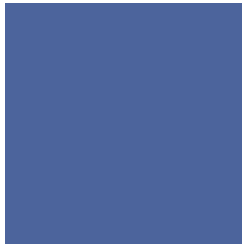


0.1142, 0.4699, 0.2362



# Previews

## White Background



This preview shows how the Yxy color 13.0511, 0.2262, 0.2181 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

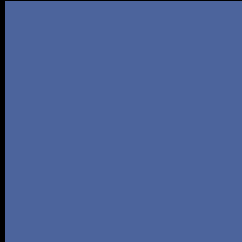
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 13.0511, 0.2262, 0.2181 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

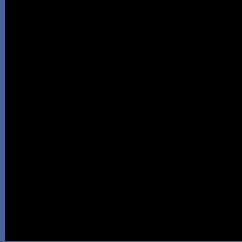
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

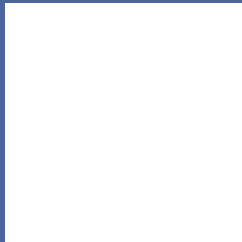
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 13.0511, 0.2262, 0.2181**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.0511, 0.2262, 0.2181.



This preview shows how white text looks on a background with the Yxy color 13.0511, 0.2262, 0.2181.

# 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

13.0511, 0.2262, 0.2181

### Protanopia

13.0396, 0.2310, 0.2187

### Deuteranopia

13.1241, 0.2241, 0.2194



## Tritanopia

13.0662, 0.2501, 0.3076

# Trichromacy



## Original Color

13.0511, 0.2262, 0.2181

## Protanomaly

12.9525, 0.2292, 0.2182

## Deuteranomaly

13.1635, 0.2249, 0.2197

## Tritanomaly

12.9708, 0.2409, 0.2709

# Monochromacy



## Original Color

13.0511, 0.2262, 0.2181

## Achromatopsia

12.4772, 0.3127, 0.3290

## Achromatomaly

12.5039, 0.2752, 0.2828

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.0511, 0.2262, 0.2181 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(76, 100, 156)` looks like.

```
.text, #text, p{  
    color:rgb(76, 100, 156)  
}
```

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(76, 100, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 100, 156) }
```

## Border

The CSS property to change the border of an element to Yxy 13.0511, 0.2262, 0.2181 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(76, 100, 156) }
```

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

```
.border{ border-color:rgb(76, 100, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 100, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 100, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 100, 156);  
box-shadow:4px 4px 4px 4px rgb(76, 100,  
156) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.0511, 0.2262, 0.2181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 100, 156) }
```

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

```
.background{ background-color: rgb(76, 100,  
156) }
```

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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