

Converting Colors

$Y_{xy}(13.5272, 0.2158, 0.2678)$

Have a look what the booklet for
Yxy(13.5272, 0.2158, 0.2678)
contains.

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Color

Yxy(13.5272, 0.2158, 0.2678)

Conversions

Conversions Part 1

Format	Color
Hex	216F8A
RGB	33, 111, 138
RGB Percent	13%, 44%, 54%
CMY	0.8704, 0.5647, 0.4588
CMYK	0.76, 0.20, 0.00, 0.46
HSL	195°, 61%, 34%
HSV	195°, 76%, 54%
XYZ	10.9006, 13.5272, 26.0846
YIQ	90.7560, -55.1550, -8.1390

Conversions

Conversions Part 2

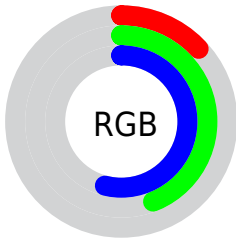
Format	Color
R_{YB}	33, 78, 138
Decimal	2191242
CIE _{Lab}	43.55, -13.74, -21.55
CIE _{LCh}	44, 25.556, 237.470
Yxy	13.5272, 0.2158, 0.2678
Android (android.graphics.Color)	4280381322 (0xFF216F8A)
YUV	90.7560, 23.2913, -50.6520
Hunter-Lab	36.7793, -11.4605, -16.3040

Details

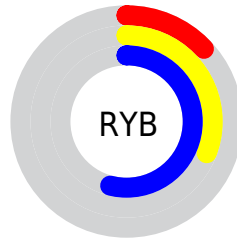
The Yxy color **13.5272, 0.2158, 0.2678** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **8.7522, 0.5243, 0.3707**, and the grayscale version is **10.3624, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.3798, 0.2382, 0.2833**, and **4.2596, 0.2003, 0.2411** is the 20% darker color. If you saturate the color by 10%, you get **12.5848, 0.2088, 0.2585**, and if you desaturate by 10%, it is **14.5949, 0.2247, 0.2771**.

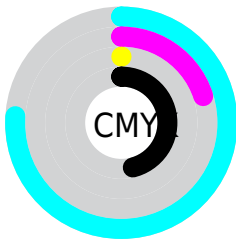
Distribution



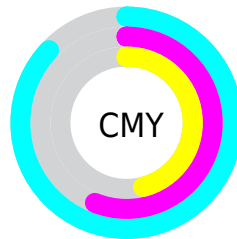
- Red (13%)
- Green (44%)
- Blue (54%)



- Red (13%)
- Yellow (31%)
- Blue (54%)



- Cyan (76%)
- Magenta (20%)
- Yellow (0%)
- Black (46%)



- Cyan (87%)
- Magenta (56%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 13.5272, 0.2158, 0.2678 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 13.5272, 0.2158, 0.2678 by changing the saturation by 10% instead.

13.5272, 0.2158,
0.2678

13.5272, 0.2158,
0.2678

214.2693, 0.2719,
0.3052

7.7926, 0.1988,
0.2553

32.2477, 0.2383,
0.2835

3.9625, 0.1750,
0.2370

46.0024, 0.2461,
0.2887

1.6526, 0.1402,
0.2078

63.1992, 0.2525,
0.2929

0.3927, 0.0138,
0.1441

84.2226, 0.2577,
0.2963

0.0000, 0.0000,
0.0000

109.4569, 0.2621,
0.2991

139.2865, 0.2659,

0.3014

174.0959, 0.2691,
0.3035

■ 13.5272, 0.2158,
0.2678

■ 13.5272, 0.2158,
0.2678

■ 12.5848, 0.2088,
0.2585

■ 14.5949, 0.2247,
0.2771

■ 11.7497, 0.2035,
0.2492

■ 15.7969, 0.2352,
0.2862

■ 11.4351, 0.2015,
0.2455

■ 17.1429, 0.2472,
0.2950

■ 18.6412, 0.2603,
0.3034

■ 20.2994, 0.2744,
0.3113

■ 22.1243, 0.2889,
0.3186

■ 24.1225, 0.3037,
0.3253

■ 26.3001, 0.3186,
0.3313

■ 28.6629, 0.3332,
0.3368

Harmonies

Analogous

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



13.5272, 0.2230, 0.3097



13.5272, 0.2158, 0.2678



13.5272, 0.2312, 0.2464

Triad

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



13.5272, 0.2158, 0.2678



13.5272, 0.3728, 0.2951



13.5272, 0.3527, 0.4273

Complementary

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



13.5272, 0.2158, 0.2678



8.7522, 0.5243, 0.3707

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.



13.5272, 0.3972, 0.4124



13.5272, 0.2158, 0.2678



13.5272, 0.4111, 0.3355

Square

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



13.5272, 0.2158, 0.2678



13.5272, 0.3187, 0.2633



13.5272, 0.4196, 0.3776



13.5272, 0.2997, 0.4101

Rectangle

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



13.5272, 0.2158, 0.2678



13.5272, 0.2531, 0.2438



13.5272, 0.4196, 0.3776



13.5272, 0.3692, 0.4254

Sweetspot

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



13.5277, 0.2158, 0.2678



36.5716, 0.2780, 0.3132



18.8226, 0.2874, 0.5144



7.9830, 0.2735, 0.3108



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290

Same Dimension

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



13.5277, 0.2158, 0.2678



21.1505, 0.2050, 0.2521



5.3170, 0.1845, 0.1444



5.4744, 0.2991, 0.3232



10.5070, 0.2016, 0.2458



0.0934, 0.2136, 0.2889

Inverse Universe

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



7.6421, 0.3724, 0.2048



11.6942, 0.3896, 0.1967



17.0516, 0.4414, 0.4554



5.1074, 0.3173, 0.3129



5.8449, 0.3964, 0.1957



0.0412, 0.3553, 0.1731

Previews

White Background



This preview shows how the Yxy color 13.5272, 0.2158, 0.2678 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 13.5272, 0.2158, 0.2678 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

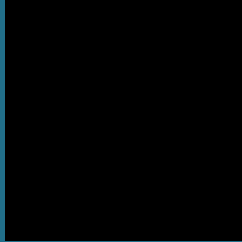
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.5272, 0.2158, 0.2678

Background



This preview shows how black text looks on a background with the Yxy color 13.5272, 0.2158, 0.2678.

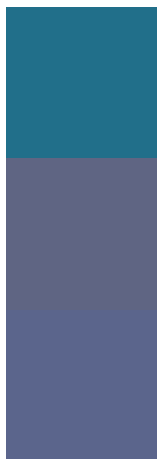


This preview shows how white text looks on a background with the Yxy color 13.5272, 0.2158, 0.2678.

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

13.5272, 0.2158, 0.2678

Protanopia

13.3790, 0.2684, 0.2665

Deuteranopia

13.4250, 0.2546, 0.2495



Tritanopia

13.5839, 0.2220, 0.3070

Trichromacy



Original Color

13.5272, 0.2158, 0.2678

Protanomaly

13.2021, 0.2420, 0.2656

Deuteranomaly

13.2693, 0.2360, 0.2559

Tritanomaly

13.5509, 0.2198, 0.2933

Monochromacy



Original Color

13.5272, 0.2158, 0.2678

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

11.1202, 0.2627, 0.3043

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.5272, 0.2158, 0.2678 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, 111, 138)` looks like.

```
.text, #text, p{  
    color:rgb(33, 111, 138)  
}
```

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, 111, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 111, 138) }
```

Border

The CSS property to change the border of an element to Yxy 13.5272, 0.2158, 0.2678 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, 111, 138) }
```

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

```
.border{ border-color:rgb(33, 111, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 111, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 111, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 111, 138);  
box-shadow:4px 4px 4px 4px rgb(33, 111,  
138) }
```


Background

The CSS property to change the background color of an element to Yxy 13.5272, 0.2158, 0.2678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 111, 138) }
```

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

```
.background{ background-color: rgb(33, 111,  
138) }
```

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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