

Converting Colors

$Y_{xy}(12.6686, 0.2145, 0.2755)$

Have a look what the booklet for
Yxy(12.6686, 0.2145, 0.2755)
contains.

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Color

Yxy(12.7465, 0.2149, 0.2768)

Conversions

Conversions Part 1

Format	Color
Hex	166D83
RGB	22, 109, 131
RGB Percent	9%, 43%, 51%
CMY	0.9136, 0.5725, 0.4863
CMYK	0.83, 0.17, 0.00, 0.49
HSL	192°, 71%, 30%
HSV	192°, 83%, 51%
XYZ	9.8960, 12.7465, 23.4070
YIQ	85.4950, -58.9140, -11.6020

Conversions

Conversions Part 2

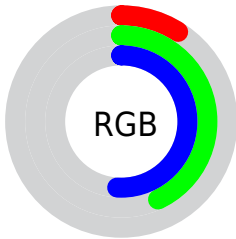
Format	Color
R _Y B	22, 70, 131
Decimal	1469827
CIE Lab	42.38, -16.41, -19.16
CIE LCh	42, 25.225, 229.414
Yxy	12.7465, 0.2149, 0.2768
Android (android.graphics.Color)	4279659907 (0xFF166D83)
YUV	85.4950, 22.4340, -55.6851
Hunter-Lab	35.7022, -13.0018, -13.8799

Details

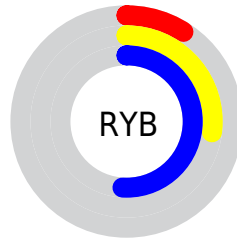
The Yxy color **12.7465, 0.2149, 0.2768** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **6.6858, 0.5596, 0.3596**, and the grayscale version is **9.1573, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9767, 0.2383, 0.2914**, and **3.9467, 0.2031, 0.2511** is the 20% darker color. If you saturate the color by 10%, you get **12.0780, 0.2099, 0.2697**, and if you desaturate by 10%, it is **13.5082, 0.2217, 0.2839**.

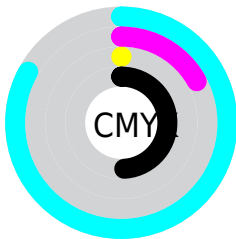
Distribution



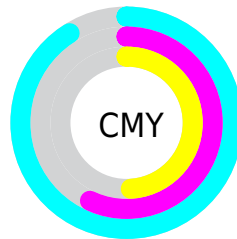
- Red (9%)
- Green (43%)
- Blue (51%)



- Red (9%)
- Yellow (27%)
- Blue (51%)



- Cyan (83%)
- Magenta (17%)
- Yellow (0%)
- Black (49%)




- Cyan (91%)
- Magenta (57%)
- Yellow (49%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7465, 0.2149, 0.2768 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 12.7465, 0.2149, 0.2768 by changing the saturation by 10% instead.


 12.7465, 0.2149,
0.2768


 12.7465, 0.2149,
0.2768


 209.2866, 0.2721,
0.3095


 7.2542, 0.1973,
0.2654


 30.8476, 0.2380,
0.2908


 3.6216, 0.1724,
0.2482

 44.2252, 0.2460,
0.2953

 1.4642, 0.1356,
0.2197

 61.0001, 0.2524,
0.2989

 0.2633, 0.0000,
0.1283

 81.5565, 0.2577,
0.3018

 0.0000, 0.0000,
0.0000

 106.2790, 0.2622,
0.3042

 135.5519, 0.2660,

0.3063

169.7596, 0.2692,
0.3080

■ 12.7465, 0.2149,
0.2768

■ 12.7465, 0.2149,
0.2768

■ 12.0780, 0.2099,
0.2697

■ 13.5082, 0.2217,
0.2839

■ 11.6508, 0.2069,
0.2648

■ 14.3723, 0.2303,
0.2910

■ 15.3478, 0.2406,
0.2979

■ 16.4425, 0.2523,
0.3046

■ 17.6632, 0.2651,
0.3109

■ 19.0163, 0.2789,
0.3169

■ 20.5075, 0.2933,
0.3224

■ 22.1423, 0.3080,
0.3275

■ 23.9260, 0.3228,
0.3321

Harmonies

Analogous

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



12.7465, 0.2284, 0.3236



12.7465, 0.2149, 0.2768



12.7465, 0.2243, 0.2496

Triad

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



12.7465, 0.2149, 0.2768



12.7465, 0.3594, 0.2852



12.7465, 0.3664, 0.4267

Complementary

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



12.7465, 0.2149, 0.2768



6.6858, 0.5596, 0.3596

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.



12.7465, 0.4065, 0.4049



12.7465, 0.2149, 0.2768



12.7465, 0.4040, 0.3241

Square

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



12.7465, 0.2149, 0.2768



12.7465, 0.3039, 0.2566



12.7465, 0.4213, 0.3667



12.7465, 0.3139, 0.4188

Rectangle

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



12.7465, 0.2149, 0.2768



12.7465, 0.2428, 0.2433



12.7465, 0.4213, 0.3667



12.7465, 0.3818, 0.4221

Sweetspot

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



12.7470, 0.2149, 0.2768



33.4563, 0.2755, 0.3155



16.5810, 0.2910, 0.5423



7.6176, 0.2714, 0.3137



67.3860, 0.3127, 0.3290



9.4630, 0.3127, 0.3290

Same Dimension

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



12.7470, 0.2149, 0.2768



20.6475, 0.2065, 0.2633



4.5157, 0.1788, 0.1397



5.1235, 0.2992, 0.3245



11.4744, 0.2069, 0.2649



0.0498, 0.2162, 0.2985

Inverse Universe

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



6.5038, 0.3651, 0.1914



10.4292, 0.3792, 0.1863



13.6747, 0.4596, 0.4522



4.7472, 0.3165, 0.3118



5.7453, 0.3777, 0.1854



0.0209, 0.3468, 0.1684

Previews

White Background



This preview shows how the Yxy color 12.7465, 0.2149, 0.2768 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 12.7465, 0.2149, 0.2768 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

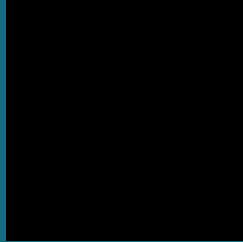
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7465, 0.2149, 0.2768

Background



This preview shows how black text looks on a background with the Yxy color 12.7465, 0.2149, 0.2768.

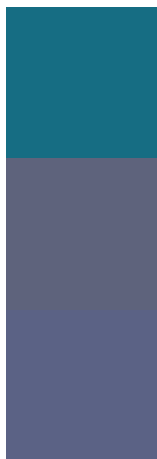


This preview shows how white text looks on a background with the Yxy color 12.7465, 0.2149, 0.2768.

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

12.7465, 0.2149, 0.2768

Protanopia

12.7586, 0.2744, 0.2754

Deuteranopia

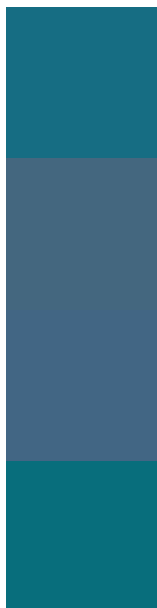
12.6530, 0.2608, 0.2555



Tritanopia

12.7249, 0.2184, 0.3063

Trichromacy



Original Color

12.7465, 0.2149, 0.2768

Protanomaly

12.4617, 0.2436, 0.2743

Deuteranomaly

12.3269, 0.2370, 0.2617

Tritanomaly

12.6587, 0.2166, 0.2944

Monochromacy



Original Color

12.7465, 0.2149, 0.2768

Achromatopsia

9.3059, 0.3127, 0.3290

Achromatomaly

10.0215, 0.2598, 0.3081

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7465, 0.2149, 0.2768 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(22, 109, 131)` looks like.

```
.text, #text, p{  
    color:rgb(22, 109, 131)  
}
```

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(22, 109, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 109, 131) }
```

Border

The CSS property to change the border of an element to Yxy 12.7465, 0.2149, 0.2768 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(22, 109, 131) }
```

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

```
.border{ border-color:rgb(22, 109, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 109, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 109, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 109, 131);  
box-shadow:4px 4px 4px 4px rgb(22, 109,  
131) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7465, 0.2149, 0.2768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 109, 131) }
```

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

```
.background{ background-color: rgb(22, 109,  
131) }
```

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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