

Converting Colors

$Y_{xy}(12.8197, 0.2362, 0.3319)$

Have a look what the booklet for
Yxy(12.8197, 0.2362, 0.3319)
contains.

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Color

Yxy(12.8180, 0.2359, 0.3313)

Conversions

Conversions Part 1

Format	Color
Hex	216F6E
RGB	33, 111, 110
RGB Percent	13%, 44%, 43%
CMY	0.8704, 0.5647, 0.5686
CMYK	0.70, 0.00, 0.01, 0.56
HSL	179°, 54%, 28%
HSV	179°, 70%, 44%
XYZ	9.1270, 12.8180, 16.7450
YIQ	87.5640, -46.1670, -16.8470

Conversions

Conversions Part 2

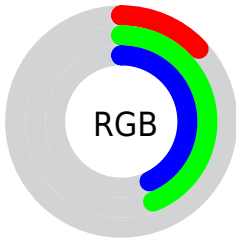
Format	Color
RYB	33, 72, 111
Decimal	2191214
CIELab	42.49, -23.14, -6.31
CIELCh	42, 23.984, 195.259
Yxy	12.8180, 0.2359, 0.3313
Android (android.graphics.Color)	4280381294 (0xFF216F6E)
YUV	87.5640, 11.0609, -47.8526
Hunter-Lab	35.8022, -17.1494, -2.6689

Details

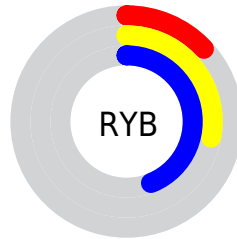
The Yxy color **12.8180, 0.2359, 0.3313** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **4.5851, 0.5283, 0.3278**, and the grayscale version is **9.6447, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9413, 0.2550, 0.3322**, and **3.9139, 0.2247, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **12.6613, 0.2311, 0.3317**, and if you desaturate by 10%, it is **13.0362, 0.2425, 0.3309**.

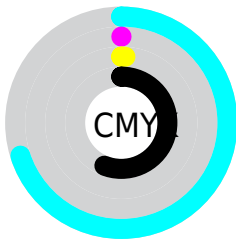
Distribution



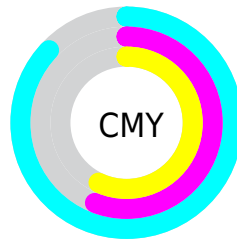
- Red (13%)
- Green (44%)
- Blue (43%)



- Red (13%)
- Yellow (28%)
- Blue (44%)



- Cyan (70%)
- Magenta (0%)
- Yellow (1%)
- Black (56%)



- Cyan (87%)
- Magenta (56%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8180, 0.2359, 0.3313 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 12.8180, 0.2359, 0.3313 by changing the saturation by 10% instead.

12.8180, 0.2359,
0.3313

12.8180, 0.2359,
0.3313

209.7479, 0.2816,
0.3309

7.3033, 0.2211,
0.3308

30.9764, 0.2547,
0.3315

3.6525, 0.1995,
0.3294

44.3890, 0.2611,
0.3314

1.4812, 0.1647,
0.3257

61.2030, 0.2662,
0.3313

0.2754, 0.0000,
0.2709

81.8027, 0.2704,
0.3312

0.0000, 0.0000,
0.0000

106.5727, 0.2739,
0.3311

135.8973, 0.2768,

0.3310

170.1609, 0.2794,
0.3309

■ 12.8180, 0.2359,
0.3313

■ 12.8180, 0.2359,
0.3313

■ 12.6613, 0.2311,
0.3317

■ 13.0362, 0.2425,
0.3309

■ 12.5584, 0.2279,
0.3321

■ 13.3197, 0.2507,
0.3306

■ 12.4853, 0.2257,
0.3324

■ 13.6739, 0.2606,
0.3302

■ 14.1030, 0.2719,
0.3299

■ 14.6112, 0.2845,
0.3296

■ 15.2020, 0.2981,
0.3293

■ 15.8789, 0.3124,
0.3290

■ 16.6453, 0.3272,
0.3288

■ 17.5042, 0.3422,
0.3286

Harmonies

Analogous

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



12.8180, 0.2722, 0.3825



12.8180, 0.2359, 0.3313



12.8180, 0.2199, 0.2848

Triad

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



12.8180, 0.2359, 0.3313



12.8180, 0.2974, 0.2571



12.8180, 0.4055, 0.3971

Complementary

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



12.8180, 0.2359, 0.3313



4.5851, 0.5283, 0.3278

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.



12.8180, 0.4154, 0.3598



12.8180, 0.2359, 0.3313



12.8180, 0.3500, 0.2828

Square

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



12.8180, 0.2359, 0.3313



12.8180, 0.2529, 0.2471



12.8180, 0.3947, 0.3191



12.8180, 0.3703, 0.4203

Rectangle

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



12.8180, 0.2359, 0.3313



12.8180, 0.2215, 0.2632



12.8180, 0.3947, 0.3191



12.8180, 0.4121, 0.3856

Sweetspot

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



12.8185, 0.2359, 0.3313



26.0341, 0.2828, 0.3296



11.8246, 0.3037, 0.5417



6.2068, 0.2801, 0.3297



58.7016, 0.3127, 0.3290



6.8385, 0.3127, 0.3290

Same Dimension

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



12.8185, 0.2359, 0.3313



22.5502, 0.2290, 0.3319



6.2788, 0.2099, 0.2233



3.8145, 0.2998, 0.3292



14.7124, 0.2257, 0.3325



73.2786, 0.2258, 0.3327

Inverse Universe

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



4.5851, 0.5283, 0.3278



6.7440, 0.5953, 0.3284



7.9605, 0.4643, 0.4077



3.4021, 0.3272, 0.3288



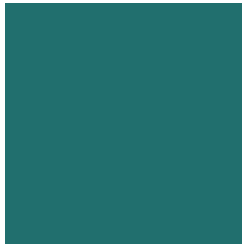
3.9857, 0.6378, 0.3287



19.8448, 0.6391, 0.3295

Previews

White Background



This preview shows how the Yxy color 12.8180, 0.2359, 0.3313 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 12.8180, 0.2359, 0.3313 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

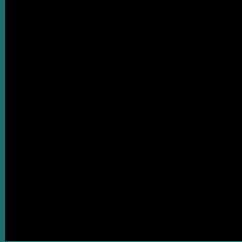
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8180, 0.2359, 0.3313

Background



This preview shows how black text looks on a background with the Yxy color 12.8180, 0.2359, 0.3313.



This preview shows how white text looks on a background with the Yxy color 12.8180, 0.2359, 0.3313.

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

12.8180, 0.2359, 0.3313

Protanopia

12.6697, 0.3102, 0.3201

Deuteranopia

12.6252, 0.2998, 0.2946



Tritanopia

12.8958, 0.2309, 0.3068

Trichromacy



Original Color

12.8180, 0.2359, 0.3313

Protanomaly

12.2776, 0.2733, 0.3217

Deuteranomaly

12.2923, 0.2688, 0.3055

Tritanomaly

12.7879, 0.2321, 0.3139

Monochromacy



Original Color

12.8180, 0.2359, 0.3313

Achromatopsia

9.7587, 0.3127, 0.3290

Achromatomaly

10.4392, 0.2734, 0.3289

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8180, 0.2359, 0.3313 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, 110)` looks like.

```
.text, #text, p{  
  color:rgb(33, 111, 110)  
}
```

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, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 111, 110) }
```

Border

The CSS property to change the border of an element to Yxy 12.8180, 0.2359, 0.3313 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, 110) }
```

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

```
.border{ border-color:rgb(33, 111, 110) }
```

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, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 111, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 111, 110);  
box-shadow:4px 4px 4px 4px rgb(33, 111,  
110) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8180, 0.2359, 0.3313 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, 110) }
```

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

```
.background{ background-color: rgb(33, 111,  
110) }
```

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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