

Converting Colors

$Y_{xy}(12.6769, 0.2442, 0.3247)$

Have a look what the booklet for
Yxy(12.6769, 0.2442, 0.3247)
contains.

Yxy(12.7160, 0.2451, 0.3263)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.7160, 0.2451, 0.3263)

Conversions

Conversions Part 1

Format	Color
Hex	316D6E
RGB	49, 109, 110
RGB Percent	19%, 43%, 43%
CMY	0.8076, 0.5726, 0.5686
CMYK	0.55, 0.01, 0.00, 0.57
HSL	181°, 38%, 31%
HSV	181°, 55%, 43%
XYZ	9.5516, 12.7160, 16.7027
YIQ	91.1740, -36.0810, -12.4090

Conversions

Conversions Part 2

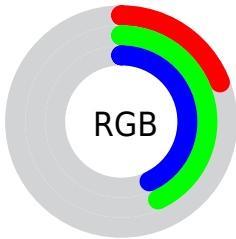
Format	Color
R_{YB}	49, 79, 110
Decimal	3239278
CIE _{Lab}	42.33, -18.97, -6.49
CIE _{LCh}	42, 20.051, 198.886
Yxy	12.7160, 0.2451, 0.3263
Android (android.graphics.Color)	4281429358 (0xFF316D6E)
YUV	91.1740, 9.2812, -36.9866
Hunter-Lab	35.6595, -14.5918, -2.8094

Details

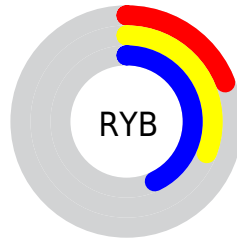
The Yxy color **12.7160, 0.2451, 0.3263** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **5.8237, 0.4629, 0.3316**, and the grayscale version is **10.4914, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.8651, 0.2611, 0.3272**, and **3.6964, 0.2223, 0.3202** is the 20% darker color. If you saturate the color by 10%, you get **12.4366, 0.2374, 0.3258**, and if you desaturate by 10%, it is **13.0633, 0.2544, 0.3268**.

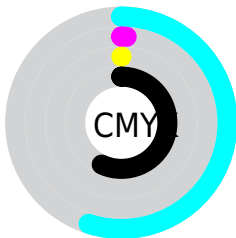
Distribution



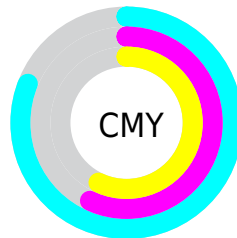
- Red (19%)
- Green (43%)
- Blue (43%)



- Red (19%)
- Yellow (31%)
- Blue (43%)



- Cyan (55%)
- Magenta (1%)
- Yellow (0%)
- Black (57%)





- Cyan (81%)
- Magenta (57%)
- Yellow (57%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.7160, 0.2451, 0.3263 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 12.7160, 0.2451, 0.3263 by changing the saturation by 10% instead.


 12.7160, 0.2451,
0.3263


 12.7160, 0.2451,
0.3263


 209.0894, 0.2854,
0.3287


 7.2333, 0.2319,
0.3250


 30.7926, 0.2618,
0.3276


 3.6084, 0.2126,
0.3224

 44.1553, 0.2674,
0.3279


 1.4570, 0.1815,
0.3169

 60.9134, 0.2719,
0.3282

 0.2582, 0.0000,
0.2600

 81.4514, 0.2756,
0.3283

 0.0000, 0.0000,
0.0000

 106.1536, 0.2786,
0.3285

 135.4044, 0.2813,

0.3286

169.5882, 0.2835,
0.3286

■ 12.7160, 0.2451,
0.3263

■ 12.7160, 0.2451,
0.3263

■ 12.4366, 0.2374,
0.3258

■ 13.0633, 0.2544,
0.3268

■ 12.2187, 0.2315,
0.3252

■ 13.4814, 0.2653,
0.3273

■ 12.0571, 0.2273,
0.3247

■ 13.9749, 0.2774,
0.3278

■ 11.9406, 0.2245,
0.3242

■ 14.5476, 0.2907,
0.3283

■ 11.8904, 0.2233,
0.3240

■ 15.2030, 0.3048,
0.3288

■ 15.9444, 0.3195,
0.3292

■ 16.7748, 0.3346,
0.3296

■ 17.6973, 0.3498,
0.3299

■ 18.7147, 0.3649,
0.3302

Harmonies

Analogous

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



12.7160, 0.2744, 0.3687



12.7160, 0.2451, 0.3263



12.7160, 0.2333, 0.2886

Triad

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



12.7160, 0.2451, 0.3263



12.7160, 0.3054, 0.2697



12.7160, 0.3884, 0.3904

Complementary

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



12.7160, 0.2451, 0.3263



5.8237, 0.4629, 0.3316

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.



12.7160, 0.3991, 0.3602



12.7160, 0.2451, 0.3263



12.7160, 0.3493, 0.2932

Square

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



12.7160, 0.2451, 0.3263



12.7160, 0.2662, 0.2594



12.7160, 0.3846, 0.3254



12.7160, 0.3572, 0.4064

Rectangle

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



12.7160, 0.2451, 0.3263



12.7160, 0.2362, 0.2712



12.7160, 0.3846, 0.3254



12.7160, 0.3946, 0.3814

Sweetspot

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



12.7165, 0.2451, 0.3263



25.3307, 0.2879, 0.3282



12.0285, 0.3049, 0.4955



5.8609, 0.2860, 0.3282



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290

Same Dimension

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



12.7165, 0.2451, 0.3263



21.7415, 0.2359, 0.3256



7.4487, 0.2291, 0.2467



3.8062, 0.2996, 0.3286



14.2797, 0.2233, 0.3239



71.0016, 0.2232, 0.3236

Inverse Universe

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



6.6204, 0.3205, 0.2062



9.9116, 0.3220, 0.1856



9.2057, 0.4233, 0.3968



3.4526, 0.3139, 0.3086



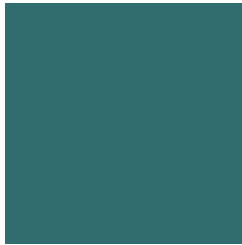
5.2874, 0.3249, 0.1564



26.3254, 0.3251, 0.1565

Previews

White Background



This preview shows how the Yxy color 12.7160, 0.2451, 0.3263 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 12.7160, 0.2451, 0.3263 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

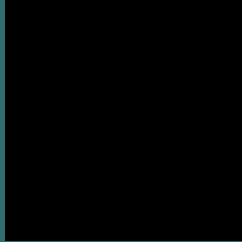
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.7160, 0.2451, 0.3263

Background



This preview shows how black text looks on a background with the Yxy color 12.7160, 0.2451, 0.3263.

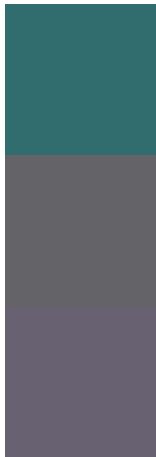


This preview shows how white text looks on a background with the Yxy color 12.7160, 0.2451, 0.3263.

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

12.7160, 0.2451, 0.3263

Protanopia

12.6325, 0.3074, 0.3179

Deuteranopia

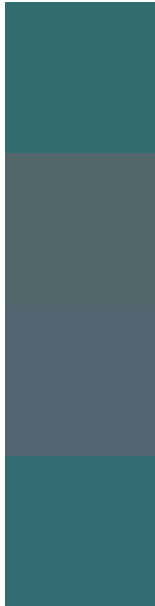
12.6252, 0.2998, 0.2946



Tritanopia

12.7395, 0.2408, 0.3070

Trichromacy



Original Color

12.7160, 0.2451, 0.3263

Protanomaly

12.4904, 0.2794, 0.3218

Deuteranomaly

12.3162, 0.2747, 0.3035

Tritanomaly

12.6438, 0.2426, 0.3141

Monochromacy



Original Color

12.7160, 0.2451, 0.3263

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

11.1537, 0.2817, 0.3289

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.7160, 0.2451, 0.3263 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(49, 109, 110)` looks like.

```
.text, #text, p{  
  color:rgb(49, 109, 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(49, 109, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 109, 110) }
```

Border

The CSS property to change the border of an element to Yxy 12.7160, 0.2451, 0.3263 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(49, 109, 110) }
```

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

```
.border{ border-color:rgb(49, 109, 110) }
```

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

Here you see how a box with a 4 pixel rgb(49, 109, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 109, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 109, 110);  
box-shadow:4px 4px 4px 4px rgb(49, 109,  
110) }
```


Background

The CSS property to change the background color of an element to Yxy 12.7160, 0.2451, 0.3263 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 109, 110) }
```

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

```
.background{ background-color: rgb(49, 109,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor