

Converting Colors

$Y_{xy}(12.8619, 0.2338, 0.3409)$

Have a look what the booklet for
Yxy(12.8619, 0.2338, 0.3409)
contains.

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Color

$Y_{xy}(12.8205, 0.2340, 0.3417)$

Conversions

Conversions Part 1

Format	Color
Hex	16706B
RGB	22, 112, 107
RGB Percent	9%, 44%, 42%
CMY	0.9135, 0.5608, 0.5804
CMYK	0.80, 0.00, 0.04, 0.56
HSL	177°, 67%, 26%
HSV	177°, 80%, 44%
XYZ	8.7796, 12.8205, 15.9196
YIQ	84.5200, -52.0350, -20.6350

Conversions

Conversions Part 2

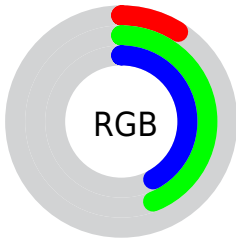
Format	Color
R_{YB}	22, 68, 112
Decimal	1470571
CIE _{Lab}	42.49, -26.10, -4.52
CIE _{LCh}	42, 26.485, 189.816
Yxy	12.8205, 0.2340, 0.3417
Android (android.graphics.Color)	4279660651 (0xFF16706B)
YUV	84.5200, 11.0826, -54.8300
Hunter-Lab	35.8057, -18.8915, -1.2970

Details

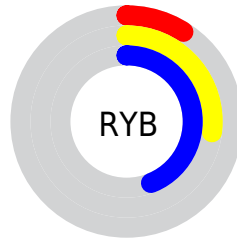
The Yxy color **12.8205, 0.2340, 0.3417** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **4.1007, 0.5634, 0.3223**, and the grayscale version is **8.9679, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.9044, 0.2536, 0.3392**, and **3.8813, 0.2282, 0.3416** is the 20% darker color. If you saturate the color by 10%, you get **12.7068, 0.2311, 0.3435**, and if you desaturate by 10%, it is **12.9906, 0.2386, 0.3399**.

Distribution



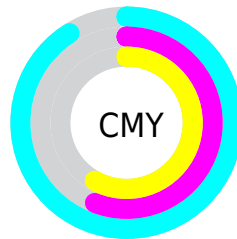
- Red (9%)
- Green (44%)
- Blue (42%)



- Red (9%)
- Yellow (27%)
- Blue (44%)



- Cyan (80%)
- Magenta (0%)
- Yellow (4%)
- Black (56%)





- Cyan (91%)
- Magenta (56%)
- Yellow (58%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8205, 0.2340, 0.3417 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 12.8205, 0.2340, 0.3417 by changing the saturation by 10% instead.


 12.8205, 0.2340,
0.3417

 12.8205, 0.2340,
0.3417


209.7641, 0.2809,
0.3349


 7.3051, 0.2188,
0.3434


 30.9809, 0.2534,
0.3392


 3.6536, 0.1965,
0.3454

 44.3947, 0.2599,
0.3382

 1.4817, 0.1590,
0.3479

 61.2100, 0.2651,
0.3374

 0.2758, 0.0000,
0.3093

 81.8113, 0.2694,
0.3367

 0.0000, 0.0000,
0.0000

 106.5830, 0.2730,
0.3362

 135.9094, 0.2760,

0.3357

170.1750, 0.2786,
0.3352

■ 12.8205, 0.2340,
0.3417

■ 12.8205, 0.2340,
0.3417

■ 12.7068, 0.2311,
0.3435

■ 12.9906, 0.2386,
0.3399

■ 12.6239, 0.2292,
0.3452

■ 13.2220, 0.2448,
0.3382

■ 13.5207, 0.2528,
0.3365

■ 13.8916, 0.2624,
0.3348

■ 14.3391, 0.2733,
0.3332

■ 14.8673, 0.2855,
0.3317

■ 15.4800, 0.2985,
0.3303

■ 16.1807, 0.3123,
0.3290

■ 16.9729, 0.3265,
0.3279

Harmonies

Analogous

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



12.8205, 0.2768, 0.3976



12.8205, 0.2340, 0.3417



12.8205, 0.2126, 0.2878

Triad

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



12.8205, 0.2340, 0.3417



12.8205, 0.2856, 0.2472



12.8205, 0.4191, 0.3963

Complementary

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



12.8205, 0.2340, 0.3417



4.1007, 0.5634, 0.3223

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.



12.8205, 0.4244, 0.3538



12.8205, 0.2340, 0.3417



12.8205, 0.3431, 0.2723

Square

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



12.8205, 0.2340, 0.3417



12.8205, 0.2402, 0.2396



12.8205, 0.3959, 0.3100



12.8205, 0.3841, 0.4267

Rectangle

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



12.8205, 0.2340, 0.3417



12.8205, 0.2115, 0.2618



12.8205, 0.3959, 0.3100



12.8205, 0.4246, 0.3828

Sweetspot

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



12.8210, 0.2340, 0.3417



25.6985, 0.2801, 0.3324



11.8942, 0.3052, 0.5655



6.1122, 0.2767, 0.3328



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.



12.8210, 0.2340, 0.3417



22.2183, 0.2299, 0.3449



6.1102, 0.2018, 0.2185



3.8121, 0.3003, 0.3301



14.5932, 0.2293, 0.3453



72.6522, 0.2295, 0.3463

Inverse Universe

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



4.1007, 0.5634, 0.3223



6.2084, 0.6232, 0.3257



6.8446, 0.5005, 0.4031



3.4042, 0.3266, 0.3279



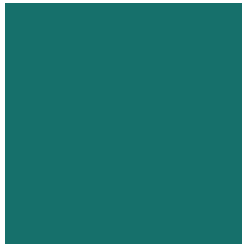
3.9970, 0.6304, 0.3246



19.8689, 0.6359, 0.3277

Previews

White Background



This preview shows how the Yxy color 12.8205, 0.2340, 0.3417 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 12.8205, 0.2340, 0.3417 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

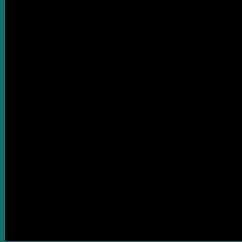
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8205, 0.2340, 0.3417

Background



This preview shows how black text looks on a background with the Yxy color 12.8205, 0.2340, 0.3417.



This preview shows how white text looks on a background with the Yxy color 12.8205, 0.2340, 0.3417.

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

12.8205, 0.2340, 0.3417

Protanopia

12.6686, 0.3158, 0.3268

Deuteranopia

12.6784, 0.3067, 0.3011



Tritanopia

12.7908, 0.2278, 0.3066

Trichromacy



Original Color

12.8205, 0.2340, 0.3417

Protanomaly

12.2964, 0.2734, 0.3313

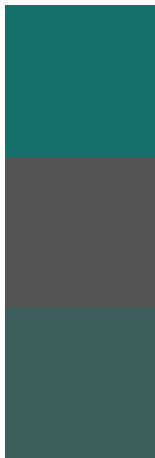
Deuteranomaly

12.1027, 0.2686, 0.3122

Tritanomaly

12.8536, 0.2296, 0.3188

Monochromacy



Original Color

12.8205, 0.2340, 0.3417

Achromatopsia

9.0842, 0.3127, 0.3290

Achromatomaly

9.9989, 0.2693, 0.3342

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8205, 0.2340, 0.3417 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, 112, 107)` looks like.

```
.text, #text, p{  
    color:rgb(22, 112, 107)  
}
```

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, 112, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 112, 107) }
```

Border

The CSS property to change the border of an element to Yxy 12.8205, 0.2340, 0.3417 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, 112, 107) }
```

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

```
.border{ border-color:rgb(22, 112, 107) }
```

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

Here you see how a box with a 4 pixel rgb(22, 112, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 112, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 112, 107);  
box-shadow:4px 4px 4px 4px rgb(22, 112,  
107) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8205, 0.2340, 0.3417 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 112, 107) }
```

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

```
.background{ background-color: rgb(22, 112,  
107) }
```

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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