

Converting Colors

$Y_{xy}(16.9665, 0.3228, 0.3968)$

Have a look what the booklet for
Yxy(16.9665, 0.3228, 0.3968)
contains.

Yxy(16.8635, 0.3232, 0.3957)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(16.8635, 0.3232, 0.3957)

Conversions

Conversions Part 1

Format	Color
Hex	647859
RGB	100, 120, 89
RGB Percent	39%, 47%, 35%
CMY	0.6079, 0.5294, 0.6510
CMYK	0.17, 0.00, 0.26, 0.53
HSL	99°, 15%, 41%
HSV	99°, 26%, 47%
XYZ	13.7738, 16.8635, 11.9796
YIQ	110.4860, -1.9690, -13.8810

Conversions

Conversions Part 2

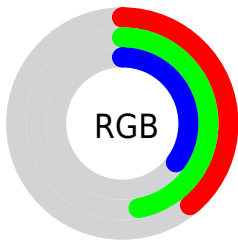
Format	Color
R _Y B	89, 120, 109
Decimal	6584409
CIE Lab	48.09, -13.61, 14.66
CIE LCh	48, 20.005, 132.874
Yxy	16.8635, 0.3232, 0.3957
Android (android.graphics.Color)	4284774489 (0xFF647859)
YUV	110.4860, -10.5926, -9.1962
Hunter-Lab	41.0652, -11.9930, 11.4495

Details

The Yxy color **16.8635, 0.3232, 0.3957** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **11.7532, 0.2991, 0.2649**, and the grayscale version is **15.7710, 0.3127, 0.3290**.

A 20% lighter version of the original color is **37.9484, 0.3212, 0.3788**, and **5.4378, 0.3271, 0.4278** is the 20% darker color. If you saturate the color by 10%, you get **16.2578, 0.3266, 0.4250**, and if you desaturate by 10%, it is **17.5456, 0.3193, 0.3681**.

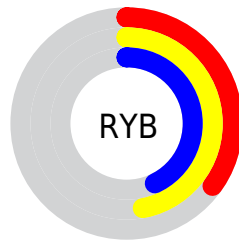
Distribution



Red (39%)

Green (47%)

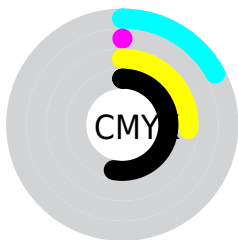
Blue (35%)



Red (35%)

Yellow (47%)

Blue (43%)

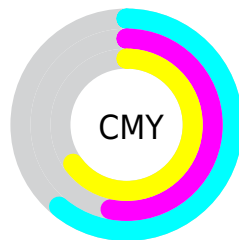


Cyan (17%)

Magenta (0%)

Yellow (26%)

Black (53%)



Cyan (61%)

Magenta (53%)


Yellow (65%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 16.8635, 0.3232, 0.3957 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 16.8635, 0.3232, 0.3957 by changing the saturation by 10% instead.

 16.8635, 0.3232,
0.3957


 16.8635, 0.3232,
0.3957


234.3845, 0.3177,
0.3557


 10.1372, 0.3245,
0.4089


 38.0909, 0.3212,
0.3791


 5.4900, 0.3260,
0.4286

 53.3609, 0.3204,
0.3735


 2.5376, 0.3271,
0.4607

 72.2475, 0.3198,
0.3690

 0.8954, 0.3668,
0.6332

 95.1352, 0.3192,
0.3654

 0.0000, 0.0000,
0.0000

 122.4083, 0.3188,
0.3624

154.4514, 0.3184,

0.3598

191.6486, 0.3180,
0.3576

■ 16.8635, 0.3232,
0.3957

■ 16.8635, 0.3232,
0.3957

■ 16.2578, 0.3266,
0.4250

■ 17.5456, 0.3193,
0.3681

■ 15.7235, 0.3293,
0.4553

■ 18.3044, 0.3152,
0.3427

■ 15.2585, 0.3310,
0.4856


■ 19.1432, 0.3110,
0.3197


■ 14.8594, 0.3313,
0.5143


■ 20.0644, 0.3068,
0.2990

■ 14.5230, 0.3301,
0.5399


■ 21.0701, 0.3028,
0.2805


 14.2453, 0.3273,
0.5608

 22.1626, 0.2989,
0.2641

 14.0204, 0.3232,
0.5766

 23.3440, 0.2953,
0.2495

 13.9378, 0.3217,
0.5828

 24.6162, 0.2919,
0.2366

 25.9812, 0.2887,
0.2252

Harmonies

Analogous

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



16.8635, 0.3602, 0.3979



16.8635, 0.3232, 0.3957



16.8635, 0.2849, 0.3717

Triad

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



16.8635, 0.3232, 0.3957



16.8635, 0.2442, 0.2741



16.8635, 0.3728, 0.3196

Complementary

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



16.8635, 0.3232, 0.3957



11.7532, 0.2991, 0.2649

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.



16.8635, 0.3383, 0.2912



16.8635, 0.3232, 0.3957



16.8635, 0.2645, 0.2652

Square

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



16.8635, 0.3232, 0.3957



16.8635, 0.2409, 0.2985



16.8635, 0.2983, 0.2717



16.8635, 0.3903, 0.3516

Rectangle

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



16.8635, 0.3232, 0.3957



16.8635, 0.2637, 0.3475



16.8635, 0.2983, 0.2717



16.8635, 0.3627, 0.3095

Sweetspot

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



16.8642, 0.3232, 0.3957



31.8633, 0.3162, 0.3485



15.5747, 0.3548, 0.3689



7.5097, 0.3167, 0.3517



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290

Same Dimension

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



16.8642, 0.3232, 0.3957



29.0107, 0.3253, 0.4129



16.3510, 0.3049, 0.3890



4.5127, 0.3165, 0.3507



15.1961, 0.3214, 0.5830



72.0497, 0.3180, 0.5857

Inverse Universe

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



11.7532, 0.2991, 0.2649



18.4123, 0.2952, 0.2492



12.3960, 0.3216, 0.2756



4.0098, 0.3086, 0.3075



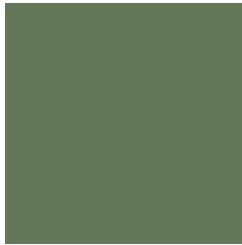
3.2146, 0.2362, 0.1075



14.8439, 0.2319, 0.1051

Previews

White Background



This preview shows how the Yxy color 16.8635, 0.3232, 0.3957 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 16.8635, 0.3232, 0.3957 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

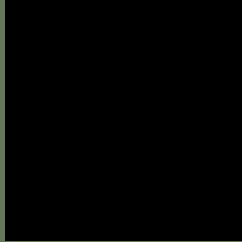
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 16.8635, 0.3232, 0.3957

Background



This preview shows how black text looks on a background with the Yxy color 16.8635, 0.3232, 0.3957.



This preview shows how white text looks on a background with the Yxy color 16.8635, 0.3232, 0.3957.

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

16.8635, 0.3232, 0.3957

Protanopia

16.8441, 0.3590, 0.3846

Deuteranopia

16.6792, 0.3708, 0.3632



Tritanopia

16.8063, 0.2900, 0.3090

Trichromacy



Original Color

16.8635, 0.3232, 0.3957

Protanomaly

16.7563, 0.3456, 0.3885

Deuteranomaly

16.6134, 0.3529, 0.3750

Tritanomaly

16.8355, 0.3022, 0.3393

Monochromacy



Original Color

16.8635, 0.3232, 0.3957

Achromatopsia

15.5926, 0.3127, 0.3290

Achromatomaly

16.0581, 0.3168, 0.3542

CSS Examples

Text

The CSS property to change the color of the text to Yxy 16.8635, 0.3232, 0.3957 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(100, 120, 89)` looks like.

```
.text, #text, p{  
    color:rgb(100, 120, 89)  
}
```

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(100, 120, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 120, 89) }
```

Border

The CSS property to change the border of an element to Yxy 16.8635, 0.3232, 0.3957 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(100, 120, 89) }
```

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

```
.border{ border-color:rgb(100, 120, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 120, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 120, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 120, 89);  
box-shadow:4px 4px 4px 4px rgb(100, 120,  
89) }
```


Background

The CSS property to change the background color of an element to Yxy 16.8635, 0.3232, 0.3957 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 120, 89) }
```

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

```
.background{ background-color: rgb(100,  
120, 89) }
```

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