

# Converting Colors

$Y_{xy}(46.8493, 0.2970, 0.3341)$

Have a look what the booklet for  
Yxy(46.8493, 0.2970, 0.3341)  
contains.

<b>Yxy(46.8521, 0.2971, 0.3344)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(46.8521, 0.2971, 0.3344)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4BBB7
RGB	164, 187, 183
RGB Percent	64%, 73%, 72%
CMY	0.3568, 0.2666, 0.2825
CMYK	0.12, 0.00, 0.02, 0.27
HSL	169°, 14%, 69%
HSV	169°, 12%, 73%
XYZ	41.6261, 46.8521, 51.6298
YIQ	179.6670, -12.4240, -6.1200

# Conversions

## Conversions Part 2

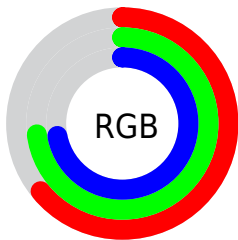
Format	Color
<b>RYB</b>	164, 177, 187
Decimal	10795959
CIELab	74.10, -8.64, -0.62
CIELCh	74, 8.659, 184.123
Yxy	46.8521, 0.2971, 0.3344
Android (android.graphics.Color)	4288986039 (0xFFA4BBB7)
YUV	179.6670, 1.6432, -13.7400
Hunter-Lab	68.4486, -11.2327, 3.1924

# Details

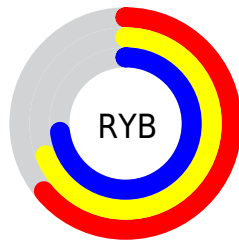
The Yxy color **46.8521, 0.2971, 0.3344** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **39.9497, 0.3309, 0.3237**, and the grayscale version is **45.4510, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3932, 0.2998, 0.3331**, and **22.1066, 0.2927, 0.3364** is the 20% darker color. If you saturate the color by 10%, you get **44.8732, 0.2851, 0.3393**, and if you desaturate by 10%, it is **49.1307, 0.3097, 0.3300**.

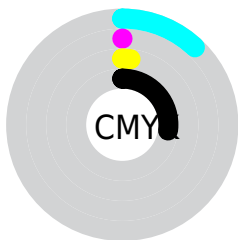
# Distribution



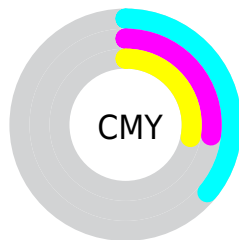
- Red (64%)
- Green (73%)
- Blue (72%)



- Red (64%)
- Yellow (69%)
- Blue (73%)



- Cyan (12%)
- Magenta (0%)
- Yellow (2%)
- Black (27%)




- Cyan (36%)
- Magenta (27%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.8521, 0.2971, 0.3344 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 46.8521, 0.2971, 0.3344 by changing the saturation by 10% instead.





 46.8521, 0.2971,  
0.3344


 46.8521, 0.2971,  
0.3344


374.2239, 0.3049,  
0.3317

 32.9187, 0.2952,  
0.3351


 85.4928, 0.2999,  
0.3334

 22.0642, 0.2927,  
0.3359


 110.9690, 0.3010,  
0.3331

 13.9041, 0.2894,  
0.3370


141.0615, 0.3019,  
0.3328

 8.0540, 0.2847,  
0.3386

176.1548, 0.3027,  
0.3325

 4.1295, 0.2778,  
0.3409

216.6333, 0.3033,  
0.3323

 1.7463, 0.2664,  
0.3447

262.8814, 0.3039,

 0.4533, 0.1818,

0.3321

0.3745

315.2835, 0.3044,  
0.3319

0.0000, 0.0000,  
0.0000

46.8521, 0.2971,  
0.3344

46.8521, 0.2971,  
0.3344

44.8732, 0.2851,  
0.3393

49.1307, 0.3097,  
0.3300

43.1753, 0.2740,  
0.3445

51.7151, 0.3228,  
0.3259

41.7467, 0.2642,  
0.3501

54.6185, 0.3360,  
0.3224

40.5727, 0.2558,  
0.3560

57.8515, 0.3491,  
0.3192

39.6369, 0.2491,  
0.3621

60.9445, 0.3600,  
0.3163

■ 38.9213, 0.2443,  
0.3684

■ 61.0992, 0.3572,  
0.3129

■ 38.4049, 0.2414,  
0.3747

■ 61.2572, 0.3545,  
0.3095

■ 38.0630, 0.2404,  
0.3809

■ 61.4185, 0.3517,  
0.3062

■ 37.8810, 0.2405,  
0.3857

■ 61.5832, 0.3490,  
0.3029

# Harmonies

## Analogous

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



46.8521, 0.3078, 0.3442



46.8521, 0.2971, 0.3344



46.8521, 0.2906, 0.3233

# Triad

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



46.8521, 0.2971, 0.3344



46.8521, 0.3051, 0.3093



46.8521, 0.3361, 0.3435

# Complementary

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



46.8521, 0.2971, 0.3344



39.9497, 0.3309, 0.3237

# 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.



46.8521, 0.3354, 0.3340



46.8521, 0.2971, 0.3344



46.8521, 0.3173, 0.3146

# Square

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



46.8521, 0.2971, 0.3344



46.8521, 0.2952, 0.3090



46.8521, 0.3285, 0.3235



46.8521, 0.3304, 0.3493



# Rectangle

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



46.8521, 0.2971, 0.3344



46.8521, 0.2894, 0.3168



46.8521, 0.3285, 0.3235



46.8521, 0.3366, 0.3406

# Sweetspot

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



46.8541, 0.2971, 0.3344



87.2267, 0.3075, 0.3307



46.5734, 0.3147, 0.3604



19.1382, 0.3065, 0.3310



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



46.8541, 0.2971, 0.3344



82.8108, 0.2935, 0.3358



44.0130, 0.2940, 0.3191



10.7800, 0.3008, 0.3331



26.1083, 0.2403, 0.3850



1.0304, 0.2361, 0.3700



# Inverse Universe

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



39.9497, 0.3309, 0.3237



67.7904, 0.3361, 0.3223



42.4829, 0.3334, 0.3387



9.5630, 0.3261, 0.3250



7.3620, 0.6112, 0.3141



0.2969, 0.5493, 0.2800



# Previews

## White Background



This preview shows how the Yxy color 46.8521, 0.2971, 0.3344 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

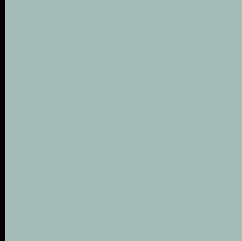
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.8521, 0.2971, 0.3344 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

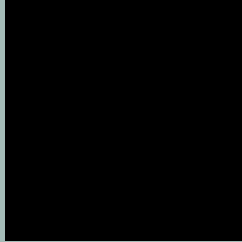
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

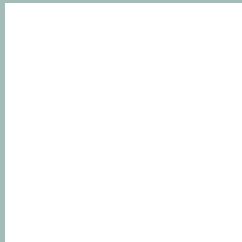
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.8521, 0.2971, 0.3344**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.8521, 0.2971, 0.3344.



This preview shows how white text looks on a background with the Yxy color 46.8521, 0.2971, 0.3344.

# 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

46.8521, 0.2971, 0.3344

### Protanopia

46.7821, 0.3178, 0.3303

### Deuteranopia

46.5592, 0.3247, 0.3178



## Tritanopia

47.0369, 0.2879, 0.3106

# Trichromacy



## Original Color

46.8521, 0.2971, 0.3344

## Protanomaly

46.6681, 0.3101, 0.3316

## Deuteranomaly

46.5423, 0.3147, 0.3239

## Tritanomaly

47.0751, 0.2914, 0.3197

# Monochromacy



## Original Color

46.8521, 0.2971, 0.3344

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

46.2018, 0.3067, 0.3316

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.8521, 0.2971, 0.3344 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(164, 187, 183)` looks like.

```
.text, #text, p{  
    color:rgb(164, 187, 183)  
}
```

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(164, 187, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 187, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 46.8521, 0.2971, 0.3344 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(164, 187, 183) }
```

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

```
.border{ border-color:rgb(164, 187, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 187, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 187, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 187, 183);  
box-shadow:4px 4px 4px 4px rgb(164, 187,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.8521, 0.2971, 0.3344 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 187, 183) }
```

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

```
.background{ background-color: rgb(164,  
187, 183) }
```

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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