

# Converting Colors

$Yxy(37.0682, 0.2574, 0.3327)$

Have a look what the booklet for  
Yxy(37.0682, 0.2574, 0.3327)  
contains.

<b>Yxy(36.9314, 0.2575, 0.3320)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(36.9314, 0.2575, 0.3320)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66B0AE
RGB	102, 176, 174
RGB Percent	40%, 69%, 68%
CMY	0.6000, 0.3098, 0.3176
CMYK	0.42, 0.00, 0.01, 0.31
HSL	178°, 32%, 55%
HSV	178°, 42%, 69%
XYZ	28.6441, 36.9314, 45.6637
YIQ	153.6460, -43.4620, -16.3100

# Conversions

## Conversions Part 2

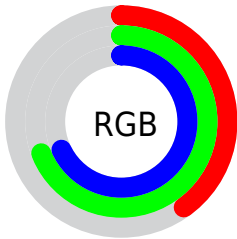
Format	Color
<a href="#">RYB</a>	<a href="#">102, 140, 176</a>
Decimal	<a href="#">6729902</a>
CIELab	<a href="#">67.23, -23.51, -6.21</a>
CIELCh	<a href="#">67, 24.313, 194.803</a>
Yxy	<a href="#">36.9314, 0.2575, 0.3320</a>
Android (android.graphics.Color)	<a href="#">4284919982 (0xFF66B0AE)</a>
YUV	<a href="#">153.6460, 10.0345, -45.2935</a>
Hunter-Lab	<a href="#">60.7712, -22.2149, -2.0108</a>

# Details

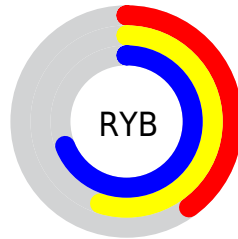
The Yxy color **36.9314, 0.2575, 0.3320** is a light color, and the websafe version is hex **669999**. A complement of this color would be **19.7315, 0.4160, 0.3263**, and the grayscale version is **32.1212, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.5385, 0.2682, 0.3324**, and **16.1519, 0.2403, 0.3311** is the 20% darker color. If you saturate the color by 10%, you get **35.9929, 0.2479, 0.3328**, and if you desaturate by 10%, it is **38.0912, 0.2687, 0.3312**.

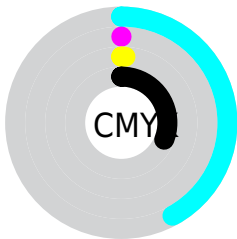
# Distribution



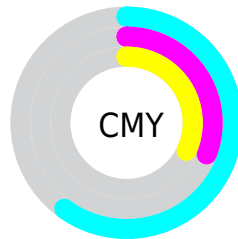
- Red (40%)
- Green (69%)
- Blue (68%)



- Red (40%)
- Yellow (55%)
- Blue (69%)



- Cyan (42%)
- Magenta (0%)
- Yellow (1%)
- Black (31%)




- Cyan (60%)
- Magenta (31%)
- Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9314, 0.2575, 0.3320 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 36.9314, 0.2575, 0.3320 by changing the saturation by 10% instead.





 36.9314, 0.2575,  
0.3320

 36.9314, 0.2575,  
0.3320


333.0134, 0.2858,  
0.3309


 25.1544, 0.2503,  
0.3321


 70.4673, 0.2679,  
0.3317


 16.1921, 0.2408,  
0.3321


 92.9949, 0.2718,  
0.3316

 9.6602, 0.2281,  
0.3320


 119.8749, 0.2750,  
0.3315

 5.1742, 0.2101,  
0.3313

 151.4916, 0.2778,  
0.3313

 2.3499, 0.1827,  
0.3292

188.2294, 0.2802,  
0.3312

 0.7999, 0.0799,  
0.3428

230.4727, 0.2823,

 0.0000, 0.0000,

0.3311

0.0000

278.6059, 0.2841,  
0.3310

■ 36.9314, 0.2575,  
0.3320

■ 36.9314, 0.2575,  
0.3320

■ 35.9929, 0.2479,  
0.3328

■ 38.0912, 0.2687,  
0.3312

■ 35.2574, 0.2402,  
0.3337

■ 39.4805, 0.2813,  
0.3305

■ 34.7108, 0.2342,  
0.3346


■ 41.1128, 0.2950,  
0.3298

■ 34.3353, 0.2302,  
0.3354

■ 42.9987, 0.3096,  
0.3291

■ 34.1097, 0.2279,  
0.3363

■ 45.1488, 0.3248,  
0.3285

 34.0019, 0.2269,  
0.3370

 47.5725, 0.3403,  
0.3280

 50.2793, 0.3558,  
0.3276

 53.2778, 0.3712,  
0.3272

 55.5382, 0.3815,  
0.3268

# Harmonies

## Analogous

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



36.9314, 0.2846, 0.3668



36.9314, 0.2575, 0.3320



36.9314, 0.2449, 0.2988

# Triad

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



36.9314, 0.2575, 0.3320



36.9314, 0.3017, 0.2759



36.9314, 0.3797, 0.3789

# Complementary

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



36.9314, 0.2575, 0.3320



19.7315, 0.4160, 0.3263

# 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.



36.9314, 0.3856, 0.3524



36.9314, 0.2575, 0.3320



36.9314, 0.3391, 0.2950

# Square

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



36.9314, 0.2575, 0.3320



36.9314, 0.2692, 0.2690



36.9314, 0.3705, 0.3222



36.9314, 0.3553, 0.3939



# Rectangle

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



36.9314, 0.2575, 0.3320



36.9314, 0.2459, 0.2824



36.9314, 0.3705, 0.3222



36.9314, 0.3840, 0.3709

# Sweetspot

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



36.9329, 0.2575, 0.3320



74.1890, 0.2934, 0.3298



34.9823, 0.3087, 0.4558



15.9332, 0.2903, 0.3300



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



36.9329, 0.2575, 0.3320



65.4564, 0.2490, 0.3327



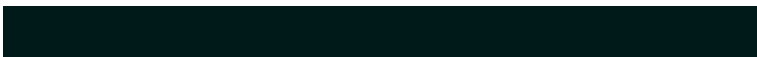
25.1467, 0.2469, 0.2710



9.6275, 0.2989, 0.3296



24.9480, 0.2269, 0.3369



0.7862, 0.2262, 0.3344



# Inverse Universe

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



19.7315, 0.4160, 0.3263



30.2495, 0.4508, 0.3259



27.9484, 0.3967, 0.3800



8.5089, 0.3283, 0.3284



6.7814, 0.6365, 0.3280

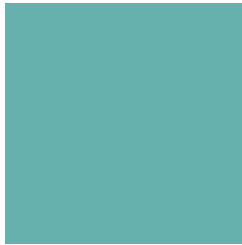


0.2146, 0.6217, 0.3198



# Previews

## White Background



This preview shows how the Yxy color 36.9314, 0.2575, 0.3320 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

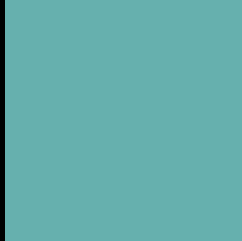
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.9314, 0.2575, 0.3320 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

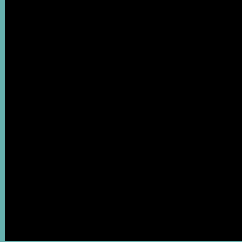
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.9314, 0.2575, 0.3320**

## Background



This preview shows how black text looks on a background with the Yxy color 36.9314, 0.2575, 0.3320.

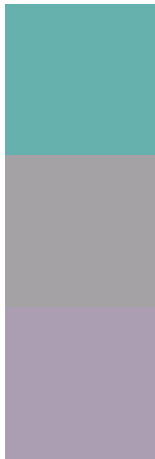


This preview shows how white text looks on a background with the Yxy color 36.9314, 0.2575, 0.3320.

# 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

36.9314, 0.2575, 0.3320

### Protanopia

36.5932, 0.3120, 0.3233

### Deuteranopia

36.4387, 0.3083, 0.3014



## Tritanopia

36.9671, 0.2508, 0.3074

# Trichromacy



## Original Color

36.9314, 0.2575, 0.3320

## Protanomaly

36.2528, 0.2889, 0.3259

## Deuteranomaly

36.2876, 0.2868, 0.3114

## Tritanomaly

37.0821, 0.2535, 0.3165

# Monochromacy



## Original Color

36.9314, 0.2575, 0.3320

## Achromatopsia

32.3143, 0.3127, 0.3290

## Achromatomaly

33.5648, 0.2889, 0.3305

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.9314, 0.2575, 0.3320 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(102, 176, 174)` looks like.

```
.text, #text, p{  
    color:rgb(102, 176, 174)  
}
```

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(102, 176, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 176, 174) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9314, 0.2575, 0.3320 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(102, 176, 174) }
```

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

```
.border{ border-color:rgb(102, 176, 174) }
```

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

Here you see how a box with a 4 pixel rgb(102, 176, 174) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 176, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 176, 174);  
box-shadow:4px 4px 4px 4px rgb(102, 176,  
174) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9314, 0.2575, 0.3320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 176, 174) }
```

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

```
.background{ background-color: rgb(102,  
176, 174) }
```

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