

# Converting Colors

$Y_{xy}(36.0225, 0.2168, 0.3355)$

Have a look what the booklet for  
Yxy(36.0225, 0.2168, 0.3355)  
contains.

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# Color

**Yxy(36.6702, 0.2265, 0.3354)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B6B2
RGB	0, 182, 178
RGB Percent	0%, 71%, 70%
CMY	1.0000, 0.2863, 0.3019
CMYK	1.00, 0.00, 0.02, 0.29
HSL	179°, 100%, 36%
HSV	179°, 100%, 71%
XYZ	24.7639, 36.6702, 47.8987
YIQ	127.1260, -107.1880, -39.8280

# Conversions

## Conversions Part 2

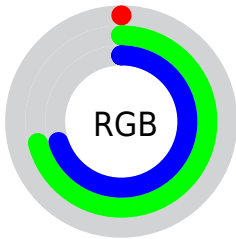
Format	Color
<a href="#">RYB</a>	0, 92, 182
Decimal	46770
CIELab	67.03, -38.54, -8.95
CIELCh	67, 39.562, 193.082
Yxy	36.6702, 0.2265, 0.3354
Android (android.graphics.Color)	4278236850 (0xFF00B6B2)
YUV	127.1260, 25.0809, -111.4895
Hunter-Lab	60.5559, -32.9767, -4.5082

# Details

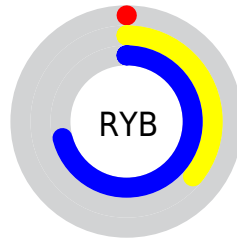
The Yxy color **36.6702, 0.2265, 0.3354** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **9.9542, 0.6377, 0.3287**, and the grayscale version is **21.2098, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.3262, 0.2423, 0.3350**, and **16.9190, 0.2266, 0.3357** is the 20% darker color. If you saturate the color by 10%, you get **36.6720, 0.2265, 0.3354**, and if you desaturate by 10%, it is **36.8186, 0.2278, 0.3347**.

# Distribution



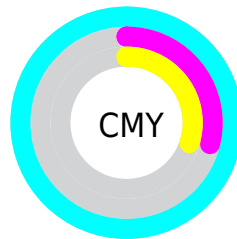
- Red (0%)
- Green (71%)
- Blue (70%)



- Red (0%)
- Yellow (36%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (2%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6702, 0.2265, 0.3354 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 36.6702, 0.2265, 0.3354 by changing the saturation by 10% instead.





 36.6702, 0.2265,  
0.3354


 36.6702, 0.2265,  
0.3354


331.8805, 0.2702,  
0.3333


 24.9522, 0.2155,  
0.3355


 70.0653, 0.2424,  
0.3349


 16.0415, 0.2015,  
0.3354


 92.5112, 0.2484,  
0.3346


 9.5535, 0.1829,  
0.3347


 119.3018, 0.2534,  
0.3344

 5.1039, 0.1573,  
0.3328

 150.8216, 0.2578,  
0.3341

 2.3084, 0.1206,  
0.3272

 187.4550, 0.2615,  
0.3339

 0.7781, 0.0000,  
0.3317

229.5864, 0.2647,

 0.0000, 0.0000,

0.3337

0.0000

277.6000, 0.2676,  
0.3335

■ 36.6702, 0.2265,  
0.3354

■ 36.6702, 0.2265,  
0.3354

■ 36.6720, 0.2265,  
0.3354

■ 36.8186, 0.2278,  
0.3347

■ 37.0864, 0.2305,  
0.3340

■ 37.5213, 0.2349,  
0.3333

■ 38.1452, 0.2412,  
0.3326

■ 38.9769, 0.2494,  
0.3319

■ 40.0330, 0.2593,  
0.3313

■ 41.3283, 0.2709,  
0.3306

■ 42.8763, 0.2838,  
0.3300

■ 44.6897, 0.2979,  
0.3295

# Harmonies

## Analogous

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



36.6702, 0.2690, 0.3958



36.6702, 0.2265, 0.3354



36.6702, 0.2070, 0.2803

# Triad

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



36.6702, 0.2265, 0.3354



36.6702, 0.2903, 0.2455



36.6702, 0.4217, 0.4035

# Complementary

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



36.6702, 0.2265, 0.3354



9.9542, 0.6377, 0.3287

# 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.



36.6702, 0.4314, 0.3596



36.6702, 0.2265, 0.3354



36.6702, 0.3513, 0.2734

# Square

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



36.6702, 0.2265, 0.3354



36.6702, 0.2409, 0.2353



36.6702, 0.4051, 0.3136



36.6702, 0.3820, 0.4337



# Rectangle

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



36.6702, 0.2265, 0.3354



36.6702, 0.2077, 0.2549



36.6702, 0.4051, 0.3136



36.6702, 0.4288, 0.3897

# Sweetspot

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



36.6720, 0.2265, 0.3354



74.7952, 0.2703, 0.3307



33.4962, 0.3007, 0.5994



16.2920, 0.2653, 0.3309



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290



# Same Dimension

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



36.6720, 0.2265, 0.3354



66.4787, 0.2265, 0.3355



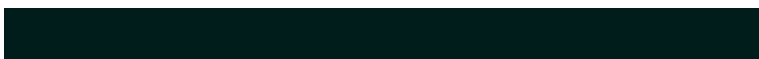
11.9395, 0.1804, 0.1692



10.2072, 0.2988, 0.3295



25.8978, 0.2265, 0.3353



0.9140, 0.2260, 0.3335



# Inverse Universe

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



9.9542, 0.6377, 0.3287



18.0417, 0.6384, 0.3290



16.4322, 0.5503, 0.4013



9.0153, 0.3284, 0.3285



7.0306, 0.6372, 0.3284



0.2489, 0.6258, 0.3221



# Previews

## White Background



This preview shows how the Yxy color 36.6702, 0.2265, 0.3354 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 36.6702, 0.2265, 0.3354 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

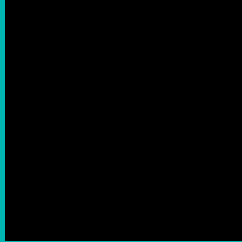
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

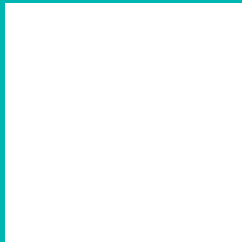
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.6702, 0.2265, 0.3354**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.6702, 0.2265, 0.3354.

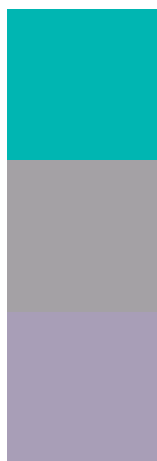


This preview shows how white text looks on a background with the Yxy color 36.6702, 0.2265, 0.3354.

# 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

36.6702, 0.2265, 0.3354

### Protanopia

36.0989, 0.3120, 0.3233

### Deuteranopia

36.1974, 0.3003, 0.2944



## Tritanopia

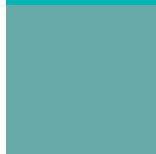
36.9309, 0.2226, 0.3065

# Trichromacy



## Original Color

36.6702, 0.2265, 0.3354



## Protanomaly

34.2213, 0.2596, 0.3272



## Deuteranomaly

34.0994, 0.2540, 0.3068



## Tritanomaly

36.8728, 0.2236, 0.3174

# Monochromacy



## Original Color

36.6702, 0.2265, 0.3354



## Achromatopsia

21.2231, 0.3127, 0.3290



## Achromatomaly

24.6921, 0.2547, 0.3307

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6702, 0.2265, 0.3354 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(0, 182, 178)` looks like.

```
.text, #text, p{  
    color:rgb(0, 182, 178)  
}
```

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(0, 182, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 182, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6702, 0.2265, 0.3354 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(0, 182, 178) }
```

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

```
.border{ border-color:rgb(0, 182, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 182, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 182, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 182, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 182,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6702, 0.2265, 0.3354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 182, 178) }
```

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

```
.background{ background-color: rgb(0, 182,  
178) }
```

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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