

# Converting Colors

$Y_{xy}(40.7563, 0.2243, 0.3273)$

Have a look what the booklet for  
Yxy(40.7563, 0.2243, 0.3273)  
contains.

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# Color

**Yxy(40.5950, 0.2243, 0.3272)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01BEBF
RGB	1, 190, 191
RGB Percent	0%, 75%, 75%
CMY	0.9956, 0.2549, 0.2511
CMYK	0.99, 0.01, 0.00, 0.25
HSL	180°, 99%, 38%
HSV	180°, 99%, 75%
XYZ	27.8284, 40.5950, 55.6444
YIQ	133.6030, -112.9650, -39.7570

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 96, 191
Decimal	114367
CIELab	69.89, -38.21, -11.81
CIELCh	70, 39.993, 197.179
Yxy	40.5950, 0.2243, 0.3272
Android (android.graphics.Color)	4278304447 (0xFF01BEBF)
YUV	133.6030, 28.2967, -116.2928
Hunter-Lab	63.7142, -33.5365, -7.1806

# Details

The Yxy color **40.5950, 0.2243, 0.3272** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **11.1210, 0.6387, 0.3302**, and the grayscale version is **23.6255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.1205, 0.2403, 0.3288**, and **19.4433, 0.2235, 0.3245** is the 20% darker color. If you saturate the color by 10%, you get **40.5868, 0.2242, 0.3272**, and if you desaturate by 10%, it is **40.7826, 0.2258, 0.3274**.

# Distribution



- Red (0%)
- Green (75%)
- Blue (75%)



- Red (0%)
- Yellow (38%)
- Blue (75%)



- Cyan (99%)
- Magenta (1%)
- Yellow (0%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.5950, 0.2243, 0.3272 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 40.5950, 0.2243, 0.3272 by changing the saturation by 10% instead.




 40.5950, 0.2243,  
0.3272


 40.5950, 0.2243,  
0.3272


348.6251, 0.2682,  
0.3295


 28.0028, 0.2136,  
0.3262


 76.0687, 0.2401,  
0.3284


 18.3277, 0.2000,  
0.3246


 99.7190, 0.2461,  
0.3287


 11.1855, 0.1823,  
0.3219


 127.8240, 0.2512,  
0.3290

 6.1918, 0.1584,  
0.3172

 160.7683, 0.2555,  
0.3291

 2.9620, 0.1251,  
0.3082

 198.9361, 0.2593,  
0.3293

 1.1119, 0.0294,  
0.3031

242.7119, 0.2626,

 0.0000, 0.0000,

0.3294

0.0000

292.4801, 0.2656,  
0.3294

■ 40.5950, 0.2243,  
0.3272

■ 40.5950, 0.2243,  
0.3272

■ 40.5868, 0.2242,  
0.3272

■ 40.7826, 0.2258,  
0.3274

■ 41.1114, 0.2287,  
0.3275

■ 41.6282, 0.2334,  
0.3277

■ 42.3577, 0.2400,  
0.3279

■ 43.3209, 0.2485,  
0.3281

■ 44.5363, 0.2588,  
0.3283

■ 46.0205, 0.2707,  
0.3285

■ 47.7886, 0.2840,  
0.3287

■ 49.8549, 0.2984,  
0.3288

# Harmonies

## Analogous

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



40.5950, 0.2633, 0.3868



40.5950, 0.2243, 0.3272



40.5950, 0.2084, 0.2756

# Triad

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



40.5950, 0.2243, 0.3272



40.5950, 0.2987, 0.2500



40.5950, 0.4155, 0.4072

# Complementary

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



40.5950, 0.2243, 0.3272



11.1210, 0.6387, 0.3302

# 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.



40.5950, 0.4295, 0.3654



40.5950, 0.2243, 0.3272



40.5950, 0.3585, 0.2793

# Square

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



40.5950, 0.2243, 0.3272



40.5950, 0.2479, 0.2374



40.5950, 0.4084, 0.3200



40.5950, 0.3738, 0.4334



# Rectangle

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



40.5950, 0.2243, 0.3272



40.5950, 0.2113, 0.2527



40.5950, 0.4084, 0.3200



40.5950, 0.4238, 0.3943

# Sweetspot

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



40.5965, 0.2243, 0.3272



82.1412, 0.2693, 0.3285



37.2607, 0.3000, 0.5996



17.7799, 0.2641, 0.3284



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



40.5965, 0.2243, 0.3272



72.6999, 0.2242, 0.3272



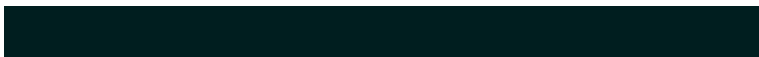
12.1417, 0.1775, 0.1584



10.8009, 0.2985, 0.3288



26.6846, 0.2242, 0.3272



1.0480, 0.2243, 0.3276



# Inverse Universe

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



14.8153, 0.3222, 0.1550



26.4969, 0.3222, 0.1549



19.4497, 0.5398, 0.4090



9.6954, 0.3139, 0.3065



9.7235, 0.3222, 0.1548

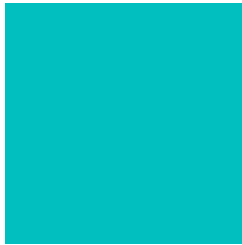


0.3812, 0.3219, 0.1547



# Previews

## White Background



This preview shows how the Yxy color 40.5950, 0.2243, 0.3272 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 40.5950, 0.2243, 0.3272 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

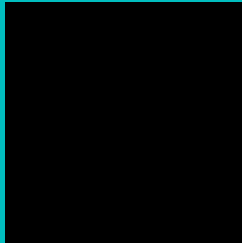
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

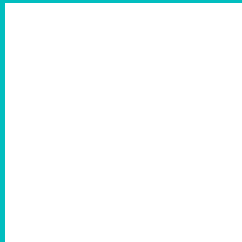
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.5950, 0.2243, 0.3272**

## Background



This preview shows how black text looks on a background with the Yxy color 40.5950, 0.2243, 0.3272.



This preview shows how white text looks on a background with the Yxy color 40.5950, 0.2243, 0.3272.

# 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

40.5950, 0.2243, 0.3272

### Protanopia

40.1363, 0.3061, 0.3166

### Deuteranopia

39.7800, 0.2942, 0.2879



## Tritanopia

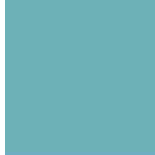
40.6016, 0.2213, 0.3058

# Trichromacy



## Original Color

40.5950, 0.2243, 0.3272



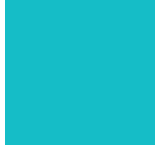
## Protanomaly

38.1144, 0.2564, 0.3197



## Deuteranomaly

37.4821, 0.2496, 0.2989



## Tritanomaly

40.6781, 0.2219, 0.3132

# Monochromacy



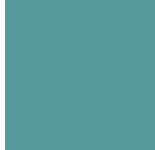
## Original Color

40.5950, 0.2243, 0.3272



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

27.4562, 0.2538, 0.3270

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.5950, 0.2243, 0.3272 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(1, 190, 191)` looks like.

```
.text, #text, p{  
    color:rgb(1, 190, 191)  
}
```

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(1, 190, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 190, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 40.5950, 0.2243, 0.3272 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(1, 190, 191) }
```

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

```
.border{ border-color:rgb(1, 190, 191) }
```

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

Here you see how a box with a 4 pixel rgb(1, 190, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 190, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 190, 191);  
box-shadow:4px 4px 4px 4px rgb(1, 190,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.5950, 0.2243, 0.3272 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 190, 191) }
```

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

```
.background{ background-color: rgb(1, 190,  
191) }
```

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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