

# Converting Colors

$Y_{xy}(42.6273, 0.2567, 0.3446)$

Have a look what the booklet for  
Yxy(42.6273, 0.2567, 0.3446)  
contains.

<b>Yxy(42.7909, 0.2569, 0.3456)</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(42.7909, 0.2569, 0.3456)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64BEB3
RGB	100, 190, 179
RGB Percent	39%, 75%, 70%
CMY	0.6076, 0.2549, 0.2981
CMYK	0.47, 0.00, 0.06, 0.25
HSL	173°, 41%, 57%
HSV	173°, 47%, 75%
XYZ	31.8084, 42.7909, 49.2170
YIQ	161.8360, -50.1090, -22.5010

# Conversions

## Conversions Part 2

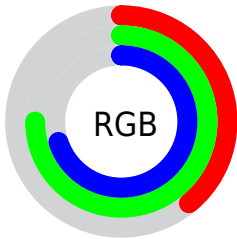
Format	Color
R <sub>Y</sub> B	100, 148, 190
Decimal	6602419
CIE Lab	71.41, -29.64, -2.78
CIE LCh	71, 29.770, 185.356
Yxy	42.7909, 0.2569, 0.3456
Android (android.graphics.Color)	4284792499 (0xFF64BEB3)
YUV	161.8360, 8.4619, -54.2302
Hunter-Lab	65.4148, -27.6789, 1.1815

# Details

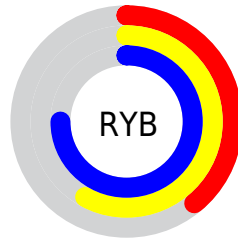
The Yxy color **42.7909, 0.2569, 0.3456** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **21.2228, 0.4245, 0.3142**, and the grayscale version is **36.0346, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.5876, 0.2668, 0.3427**, and **19.5658, 0.2409, 0.3505** is the 20% darker color. If you saturate the color by 10%, you get **41.7384, 0.2489, 0.3497**, and if you desaturate by 10%, it is **44.1011, 0.2665, 0.3417**.

# Distribution



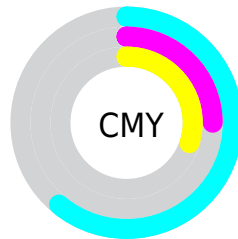
- Red (39%)
- Green (75%)
- Blue (70%)



- Red (39%)
- Yellow (58%)
- Blue (75%)



- Cyan (47%)
- Magenta (0%)
- Yellow (6%)
- Black (25%)




- Cyan (61%)
- Magenta (25%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.7909, 0.2569, 0.3456 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 42.7909, 0.2569, 0.3456 by changing the saturation by 10% instead.





 42.7909, 0.2569,  
0.3456


 42.7909, 0.2569,  
0.3456


357.7511, 0.2849,  
0.3375


 29.7211, 0.2499,  
0.3476


 79.3952, 0.2671,  
0.3427

 19.6270, 0.2409,  
0.3500


 103.6985, 0.2709,  
0.3416

 12.1242, 0.2289,  
0.3532


 132.5151, 0.2741,  
0.3407

 6.8283, 0.2123,  
0.3574

 166.2294, 0.2769,  
0.3399

 3.3550, 0.1878,  
0.3633

205.2257, 0.2793,  
0.3392

 1.3197, 0.1363,  
0.3768

249.8885, 0.2814,

 0.1564, 0.0000,

0.3385

300.6022, 0.2833,  
0.3380

0.3002

0.0000, 0.0000,  
0.0000

42.7909, 0.2569,  
0.3456

42.7909, 0.2569,  
0.3456

41.7384, 0.2489,  
0.3497

44.1011, 0.2665,  
0.3417

40.9206, 0.2428,  
0.3539

45.6799, 0.2775,  
0.3379

40.3191, 0.2386,  
0.3582


47.5439, 0.2897,  
0.3344

39.9104, 0.2362,  
0.3624


49.7067, 0.3028,  
0.3312


39.6610, 0.2356,  
0.3666


52.1811, 0.3164,  
0.3282

 39.6054, 0.2355,  
0.3678

 54.9793, 0.3304,  
0.3256

 58.1126, 0.3444,  
0.3232

 61.5918, 0.3584,  
0.3212

 62.2530, 0.3589,  
0.3188

# Harmonies

## Analogous

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



42.7909, 0.2922, 0.3844



42.7909, 0.2569, 0.3456



42.7909, 0.2369, 0.3044

# Triad

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



42.7909, 0.2569, 0.3456



42.7909, 0.2867, 0.2638



42.7909, 0.3955, 0.3775

# Complementary

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



42.7909, 0.2569, 0.3456



21.2228, 0.4245, 0.3142

# 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.



42.7909, 0.3949, 0.3445



42.7909, 0.2569, 0.3456



42.7909, 0.3296, 0.2816

# Square

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



42.7909, 0.2569, 0.3456



42.7909, 0.2532, 0.2606



42.7909, 0.3702, 0.3103



42.7909, 0.3727, 0.4009



# Rectangle

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



42.7909, 0.2569, 0.3456



42.7909, 0.2340, 0.2826



42.7909, 0.3702, 0.3103



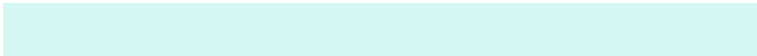
42.7909, 0.3981, 0.3671

# Sweetspot

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



42.7926, 0.2569, 0.3456



87.3177, 0.2937, 0.3334



41.1956, 0.3144, 0.4725



18.9940, 0.2909, 0.3341



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.



42.7926, 0.2569, 0.3456



75.5392, 0.2485, 0.3500



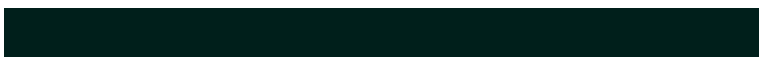
30.5518, 0.2411, 0.2768



10.7889, 0.3001, 0.3318



26.3438, 0.2353, 0.3672



1.0376, 0.2325, 0.3571



# Inverse Universe

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



21.2228, 0.4245, 0.3142



31.6665, 0.4658, 0.3119



28.6539, 0.4174, 0.3745



9.5549, 0.3270, 0.3262



7.3276, 0.6228, 0.3205

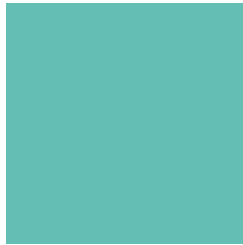


0.2934, 0.5730, 0.2930



# Previews

## White Background



This preview shows how the Yxy color 42.7909, 0.2569, 0.3456 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

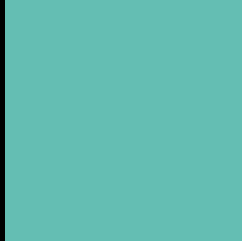
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.7909, 0.2569, 0.3456 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

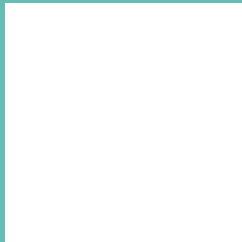
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.7909, 0.2569, 0.3456**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.7909, 0.2569, 0.3456.

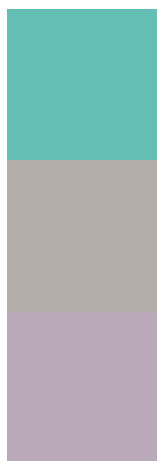


This preview shows how white text looks on a background with the Yxy color 42.7909, 0.2569, 0.3456.

# 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

42.7909, 0.2569, 0.3456

### Protanopia

42.2167, 0.3206, 0.3344

### Deuteranopia

42.2757, 0.3154, 0.3095



## Tritanopia

42.9307, 0.2468, 0.3072

# Trichromacy



## Original Color

42.7909, 0.2569, 0.3456

## Protanomaly

41.7414, 0.2931, 0.3375

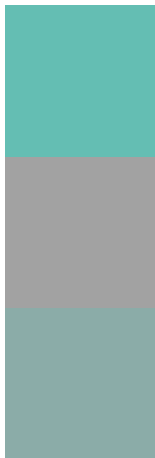
## Deuteranomaly

41.7902, 0.2903, 0.3219

## Tritanomaly

42.8045, 0.2499, 0.3200

# Monochromacy



## Original Color

42.7909, 0.2569, 0.3456

## Achromatopsia

36.1307, 0.3127, 0.3290

## Achromatomaly

37.8212, 0.2875, 0.3349

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.7909, 0.2569, 0.3456 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, 190, 179)` looks like.

```
.text, #text, p{  
    color:rgb(100, 190, 179)  
}
```

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, 190, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 190, 179) }
```

## Border

The CSS property to change the border of an element to Yxy 42.7909, 0.2569, 0.3456 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, 190, 179) }
```

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

```
.border{ border-color:rgb(100, 190, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 190, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(100, 190, 179); -webkit-box-shadow:4px 4px 4px 4px rgb(100, 190, 179); box-shadow:4px 4px 4px 4px rgb(100, 190, 179) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.7909, 0.2569, 0.3456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 190, 179) }
```

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

```
.background{ background-color: rgb(100,  
190, 179) }
```

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