

# Converting Colors

Yxy(64.4719, 0.2437, 0.3839)

Have a look what the booklet for  
Yxy(64.4719, 0.2437, 0.3839)  
contains.

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# Color

**Yxy(64.4687, 0.2437, 0.3840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2AECC4
RGB	42, 236, 196
RGB Percent	16%, 93%, 77%
CMY	0.8351, 0.0745, 0.2314
CMYK	0.82, 0.00, 0.17, 0.07
HSL	168°, 84%, 55%
HSV	168°, 82%, 93%
XYZ	40.9141, 64.4687, 62.5044
YIQ	173.4340, -102.7840, -53.5680

# Conversions

## Conversions Part 2

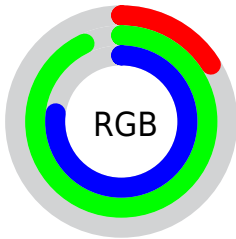
<b>Format</b>	<b>Color</b>
<b>RYB</b>	42, 150, 236
Decimal	2813124
CIELab	84.21, -54.41, 6.56
CIELCh	84, 54.803, 173.130
Yxy	64.4687, 0.2437, 0.3840
Android (android.graphics.Color)	4281003204 (0xFF2AECC4)
YUV	173.4340, 11.1250, -115.2676
Hunter-Lab	80.2924, -49.5545, 10.0498

# Details

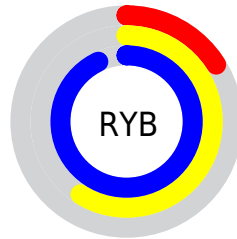
The Yxy color **64.4687, 0.2437, 0.3840** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **20.1031, 0.5516, 0.3001**, and the grayscale version is **42.0119, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8228, 0.2465, 0.3311**, and **34.1932, 0.2434, 0.3963** is the 20% darker color. If you saturate the color by 10%, you get **63.8927, 0.2431, 0.3916**, and if you desaturate by 10%, it is **65.3494, 0.2462, 0.3764**.

# Distribution



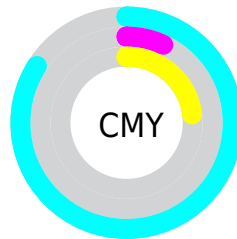
- Red (16%)
- Green (93%)
- Blue (77%)



- Red (16%)
- Yellow (59%)
- Blue (93%)



- Cyan (82%)
- Magenta (0%)
- Yellow (17%)
- Black (7%)




- Cyan (84%)
- Magenta (7%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.4687, 0.2437, 0.3840 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 64.4687, 0.2437, 0.3840 by changing the saturation by 10% instead.





 64.4687, 0.2437,  
0.3840


 64.4687, 0.2437,  
0.3840


440.8802, 0.2764,  
0.3574

 47.0304, 0.2361,  
0.3904


 111.2857, 0.2552,  
0.3745


 33.0597, 0.2266,  
0.3984


 141.4331, 0.2596,  
0.3709

 22.1722, 0.2144,  
0.4089

 176.5857, 0.2634,  
0.3678

 13.9835, 0.1984,  
0.4229

 217.1279, 0.2667,  
0.3651

 8.1092, 0.1765,  
0.4428

 263.4441, 0.2696,  
0.3628

 4.1649, 0.1451,  
0.4728

315.9186, 0.2721,

 1.7662, 0.0519,

0.3608

0.5489

374.9358, 0.2744,  
0.3590

■ 0.4660, 0.0000,  
0.9048

■ 0.0000, 0.0000,  
0.0000

■ 64.4687, 0.2437,  
0.3840

■ 64.4687, 0.2437,  
0.3840

■ 63.8927, 0.2431,  
0.3916


■ 65.3494, 0.2462,  
0.3764

■ 63.5942, 0.2437,  
0.3975


■ 66.5721, 0.2507,  
0.3688


■ 68.1766, 0.2571,  
0.3614


■ 70.1952, 0.2652,  
0.3543

 72.6568, 0.2749,  
0.3475

 75.5876, 0.2857,  
0.3412

 79.0119, 0.2975,  
0.3354

 82.9520, 0.3099,  
0.3301

 87.4293, 0.3227,  
0.3253

# Harmonies

## Analogous

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



64.4687, 0.3041, 0.4410



64.4687, 0.2437, 0.3840



64.4687, 0.2045, 0.3121

# Triad

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



64.4687, 0.2437, 0.3840



64.4687, 0.2473, 0.2249



64.4687, 0.4492, 0.3792

# Complementary

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



64.4687, 0.2437, 0.3840



20.1031, 0.5516, 0.3001

# 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.



64.4687, 0.4334, 0.3274



64.4687, 0.2437, 0.3840



64.4687, 0.3093, 0.2435

# Square

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



64.4687, 0.2437, 0.3840



64.4687, 0.2071, 0.2281



64.4687, 0.3796, 0.2798



64.4687, 0.4241, 0.4265



# Rectangle

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



64.4687, 0.2437, 0.3840



64.4687, 0.1934, 0.2723



64.4687, 0.3796, 0.2798



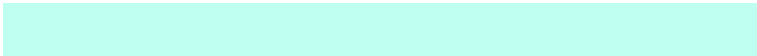
64.4687, 0.4487, 0.3620

# Sweetspot

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



64.4712, 0.2437, 0.3840



89.0305, 0.2825, 0.3430



62.0486, 0.3141, 0.5719



18.7910, 0.2786, 0.3452



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



64.4712, 0.2437, 0.3840



75.8443, 0.2437, 0.3970



39.6177, 0.2071, 0.2515



17.0655, 0.3009, 0.3339



35.0725, 0.2434, 0.3962



2.7674, 0.2405, 0.3858



# Inverse Universe

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



20.1031, 0.5516, 0.3001



21.5877, 0.6074, 0.3126



26.5510, 0.5527, 0.3735



15.1049, 0.3260, 0.3242



9.9656, 0.6055, 0.3109

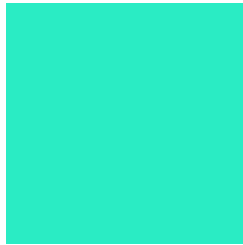


0.7961, 0.5678, 0.2902



# Previews

## White Background



This preview shows how the Yxy color 64.4687, 0.2437, 0.3840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

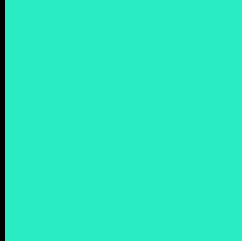
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.4687, 0.2437, 0.3840 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

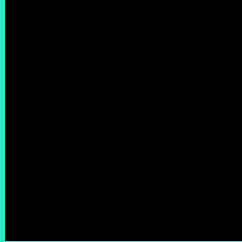
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

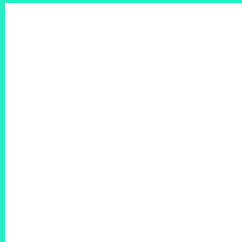
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.4687, 0.2437, 0.3840**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.4687, 0.2437, 0.3840.



This preview shows how white text looks on a background with the Yxy color 64.4687, 0.2437, 0.3840.

# 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

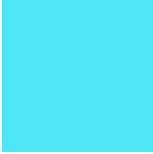
64.4687, 0.2437, 0.3840

### Protanopia

63.3534, 0.3399, 0.3601

### Deuteranopia

62.9559, 0.3333, 0.3258



## **Tritanopia**

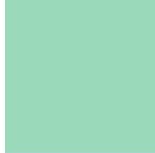
64.3737, 0.2281, 0.3062

# Trichromacy



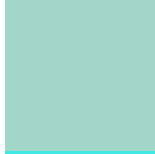
## Original Color

64.4687, 0.2437, 0.3840



## Protanomaly

60.5580, 0.2891, 0.3705



## Deuteranomaly

59.9916, 0.2849, 0.3454



## Tritanomaly

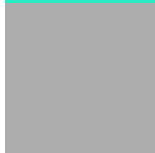
64.4385, 0.2334, 0.3340

# Monochromacy



## Original Color

64.4687, 0.2437, 0.3840



## Achromatopsia

41.7885, 0.3127, 0.3290



## Achromatomaly

47.1760, 0.2714, 0.3505

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.4687, 0.2437, 0.3840 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(42, 236, 196)` looks like.

```
.text, #text, p{  
    color:rgb(42, 236, 196)  
}
```

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(42, 236, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 236, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 64.4687, 0.2437, 0.3840 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(42, 236, 196) }
```

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

```
.border{ border-color:rgb(42, 236, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 236, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 236, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 236, 196);  
box-shadow:4px 4px 4px 4px rgb(42, 236,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.4687, 0.2437, 0.3840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 236, 196) }
```

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

```
.background{ background-color: rgb(42, 236,  
196) }
```

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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