

# Converting Colors

$Y_{xy}(62.1012, 0.2504, 0.4298)$

Have a look what the booklet for  
Yxy(62.1012, 0.2504, 0.4298)  
contains.

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# Color

**Yxy(62.1698, 0.2525, 0.4290)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EBA6
RGB	0, 235, 166
RGB Percent	0%, 92%, 65%
CMY	1.0000, 0.0784, 0.3489
CMYK	1.00, 0.00, 0.29, 0.08
HSL	162°, 100%, 46%
HSV	162°, 100%, 92%
XYZ	36.5918, 62.1698, 46.1564
YIQ	156.8690, -117.9110, -71.2790

# Conversions

## Conversions Part 2

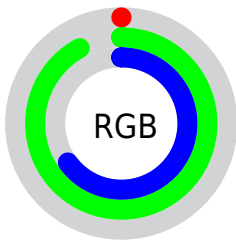
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 138, 235
Decimal	60326
CIELab	83.00, -63.00, 20.46
CIELCh	83, 66.242, 162.013
Yxy	62.1698, 0.2525, 0.4290
Android (android.graphics.Color)	4278250406 (0xFF00EBA6)
YUV	156.8690, 4.5016, -137.5741
Hunter-Lab	78.8478, -55.1452, 20.4860

# Details

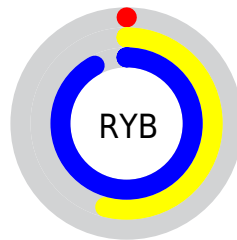
The Yxy color **62.1698, 0.2525, 0.4290** is a dark color, and the websafe version is hex **00FFCC**. The color can be described as middle washed spring green. A complement of this color would be **18.0922, 0.5823, 0.2981**, and the grayscale version is **33.6758, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.0555, 0.2555, 0.3702**, and **33.0557, 0.2586, 0.4509** is the 20% darker color. If you saturate the color by 10%, you get **62.1726, 0.2525, 0.4290**, and if you desaturate by 10%, it is **62.6208, 0.2510, 0.4179**.

# Distribution



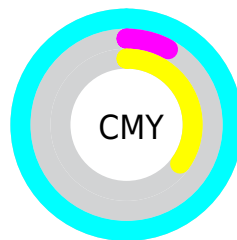
- Red (0%)
- Green (92%)
- Blue (65%)



- Red (0%)
- Yellow (54%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (29%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.1698, 0.2525, 0.4290 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 62.1698, 0.2525, 0.4290 by changing the saturation by 10% instead.





 62.1698, 0.2525,  
0.4290


 62.1698, 0.2525,  
0.4290

432.5502, 0.2825,  
0.3784


 45.1699, 0.2451,  
0.4417


 107.9709, 0.2633,  
0.4105

 31.5913, 0.2357,  
0.4581


 137.5409, 0.2674,  
0.4036


 21.0495, 0.2233,  
0.4799


 172.0697, 0.2709,  
0.3977

 13.1602, 0.2065,  
0.5102

 211.9418, 0.2739,  
0.3927

 7.5390, 0.1822,  
0.5548

 257.5415, 0.2764,  
0.3884

 3.8014, 0.1453,  
0.6253

309.2532, 0.2787,

 1.5631, 0.0000,

0.3846

0.9192

367.4613, 0.2807,  
0.3813

■ 0.3325, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 62.1698, 0.2525,  
0.4290

■ 62.1698, 0.2525,  
0.4290

■ 62.1726, 0.2525,  
0.4290

■ 62.6208, 0.2510,  
0.4179

■ 63.3109, 0.2512,  
0.4067

■ 64.3152, 0.2534,  
0.3955

■ 65.6761, 0.2576,  
0.3844

■ 67.4296, 0.2637,  
0.3736

■ 69.6067, 0.2714,  
0.3633

■ 72.2356, 0.2805,  
0.3536

■ 75.3419, 0.2906,  
0.3446

■ 78.9493, 0.3014,  
0.3364

# Harmonies

## Analogous

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



62.1698, 0.3294, 0.4816



62.1698, 0.2525, 0.4290



62.1698, 0.1963, 0.3385

# Triad

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



62.1698, 0.2525, 0.4290



62.1698, 0.2132, 0.2039



62.1698, 0.4777, 0.3623

# Complementary

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



62.1698, 0.2525, 0.4290



18.0922, 0.5823, 0.2981

# 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.



62.1698, 0.4404, 0.3032



62.1698, 0.2525, 0.4290



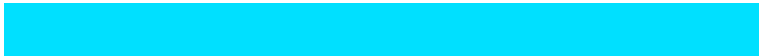
62.1698, 0.2775, 0.2171

# Square

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



62.1698, 0.2525, 0.4290



62.1698, 0.1778, 0.2167



62.1698, 0.3623, 0.2522



62.1698, 0.4621, 0.4224



# Rectangle

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



62.1698, 0.2525, 0.4290



62.1698, 0.1763, 0.2832



62.1698, 0.3623, 0.2522



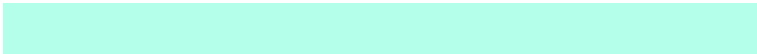
62.1698, 0.4712, 0.3421

# Sweetspot

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



62.1726, 0.2525, 0.4290



86.9014, 0.2804, 0.3537



60.7395, 0.3132, 0.5895



18.2997, 0.2764, 0.3578



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.



62.1726, 0.2525, 0.4290



74.8213, 0.2526, 0.4295



41.9660, 0.2062, 0.2624



17.0421, 0.3020, 0.3360



34.6241, 0.2520, 0.4272



2.7355, 0.2477, 0.4119



# Inverse Universe

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



18.0922, 0.5823, 0.2981



21.7660, 0.5834, 0.2987



19.6959, 0.6198, 0.3460



15.1268, 0.3247, 0.3221



10.0882, 0.5782, 0.2959

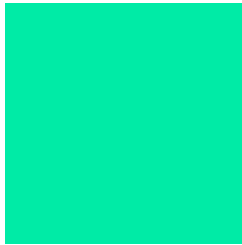


0.8085, 0.5388, 0.2742



# Previews

## White Background



This preview shows how the Yxy color 62.1698, 0.2525, 0.4290 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 62.1698, 0.2525, 0.4290 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

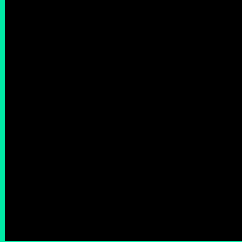
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

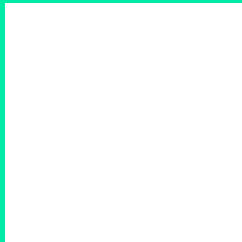
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 62.1698, 0.2525, 0.4290**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.1698, 0.2525, 0.4290.

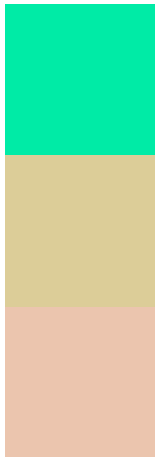


This preview shows how white text looks on a background with the Yxy color 62.1698, 0.2525, 0.4290.

# 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

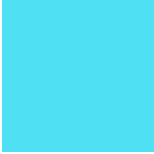
62.1698, 0.2525, 0.4290

### Protanopia

61.1453, 0.3639, 0.3903

### Deuteranopia

60.6507, 0.3618, 0.3547



## Tritanopia

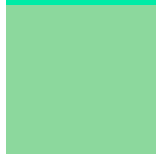
61.9838, 0.2286, 0.3059

# Trichromacy



## Original Color

62.1698, 0.2525, 0.4290



## Protanomaly

57.1215, 0.2976, 0.4100



## Deuteranomaly

56.0128, 0.2954, 0.3829



## Tritanomaly

61.6230, 0.2347, 0.3477

# Monochromacy



## Original Color

62.1698, 0.2525, 0.4290



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

39.9453, 0.2672, 0.3687

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  62.1698, 0.2525, 0.4290 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, 235, 166)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 166)  
}
```

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, 235, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 166) }
```

## Border

The CSS property to change the border of an element to Yxy 62.1698, 0.2525, 0.4290 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, 235, 166) }
```

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

```
.border{ border-color:rgb(0, 235, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 235, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 235, 166);  
box-shadow:4px 4px 4px 4px rgb(0, 235,  
166) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.1698, 0.2525, 0.4290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 235, 166) }
```

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

```
.background{ background-color: rgb(0, 235,  
166) }
```

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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