

# Converting Colors

$Y_{xy}(69.1992, 0.2523, 0.3370)$

Have a look what the booklet for  
Yxy(69.1992, 0.2523, 0.3370)  
contains.

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# Color

**Yxy(69.1557, 0.2525, 0.3375)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AEBE4
RGB	122, 235, 228
RGB Percent	48%, 92%, 89%
CMY	0.5215, 0.0784, 0.1059
CMYK	0.48, 0.00, 0.03, 0.08
HSL	176°, 74%, 70%
HSV	176°, 48%, 92%
XYZ	51.7387, 69.1557, 84.0114
YIQ	200.4150, -65.1010, -26.1330

# Conversions

## Conversions Part 2

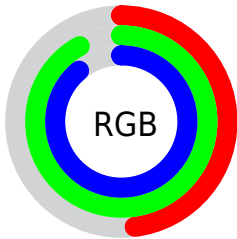
Format	Color
R <sub>Y</sub> B	122, 180, 235
Decimal	8055780
CIE Lab	86.58, -33.91, -6.57
CIE LCh	87, 34.539, 190.973
Yxy	69.1557, 0.2525, 0.3375
Android (android.graphics.Color)	4286245860 (0xFF7AEBE4)
YUV	200.4150, 13.5994, -68.7700
Hunter-Lab	83.1599, -34.4744, -1.6851

# Details

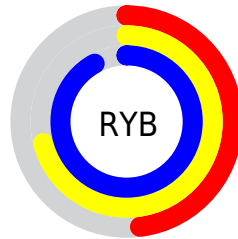
The Yxy color **69.1557, 0.2525, 0.3375** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **33.1737, 0.4380, 0.3216**, and the grayscale version is **57.9771, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.5638, 0.2706, 0.3289**, and **36.1871, 0.2384, 0.3387** is the 20% darker color. If you saturate the color by 10%, you get **67.5643, 0.2443, 0.3396**, and if you desaturate by 10%, it is **71.1679, 0.2625, 0.3355**.

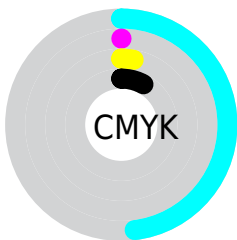
# Distribution



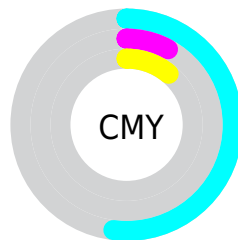
- Red (48%)
- Green (92%)
- Blue (89%)



- Red (48%)
- Yellow (71%)
- Blue (92%)



- Cyan (48%)
- Magenta (0%)
- Yellow (3%)
- Black (8%)




- Cyan (52%)
- Magenta (8%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.1557, 0.2525, 0.3375 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 69.1557, 0.2525, 0.3375 by changing the saturation by 10% instead.




 69.1557, 0.2525,  
0.3375

 69.1557, 0.2525,  
0.3375

457.5799, 0.2802,  
0.3341


 50.8385, 0.2462,  
0.3382


 118.0039, 0.2621,  
0.3364

 36.0801, 0.2386,  
0.3389


 149.3038, 0.2658,  
0.3360

 24.4961, 0.2289,  
0.3398


 185.7000, 0.2690,  
0.3355

 15.7020, 0.2164,  
0.3407

227.5769, 0.2718,  
0.3352

 9.3135, 0.1996,  
0.3416

275.3190, 0.2743,  
0.3349

 4.9463, 0.1762,  
0.3421

329.3106, 0.2765,

 2.2158, 0.1415,

0.3346

0.3410

389.9361, 0.2784,  
0.3343

0.7286, 0.0000,  
0.3623

0.0000, 0.0000,  
0.0000

69.1557, 0.2525,  
0.3375

69.1557, 0.2525,  
0.3375

67.5643, 0.2443,  
0.3396

71.1679, 0.2625,  
0.3355

66.3552, 0.2379,  
0.3416


73.6202, 0.2741,  
0.3336

65.4965, 0.2336,  
0.3437


76.5404, 0.2870,  
0.3319

64.9476, 0.2311,  
0.3458

79.9515, 0.3009,  
0.3302

 64.6516, 0.2302,  
0.3479


 83.8751, 0.3156,  
0.3287

 64.6075, 0.2301,  
0.3483

 86.7775, 0.3251,  
0.3273

 86.8630, 0.3242,  
0.3259

 86.9492, 0.3233,  
0.3245

 87.0361, 0.3223,  
0.3231

# Harmonies

## Analogous

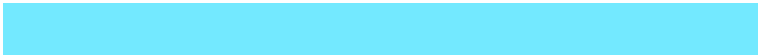
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.1557, 0.2851, 0.3775



69.1557, 0.2525, 0.3375



69.1557, 0.2361, 0.2981

# Triad

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



69.1557, 0.2525, 0.3375



69.1557, 0.2945, 0.2667



69.1557, 0.3919, 0.3824

# Complementary

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



69.1557, 0.2525, 0.3375



33.1737, 0.4380, 0.3216

# 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.



69.1557, 0.3960, 0.3508



69.1557, 0.2525, 0.3375



69.1557, 0.3375, 0.2868

# Square

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



69.1557, 0.2525, 0.3375



69.1557, 0.2590, 0.2607



69.1557, 0.3756, 0.3166



69.1557, 0.3659, 0.4026

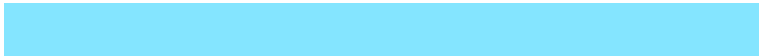


# Rectangle

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



69.1557, 0.2525, 0.3375



69.1557, 0.2355, 0.2783



69.1557, 0.3756, 0.3166



69.1557, 0.3960, 0.3726

# Sweetspot

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



69.1584, 0.2525, 0.3375



93.7047, 0.2925, 0.3312



65.5348, 0.3098, 0.4793



19.8720, 0.2895, 0.3315



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.



69.1584, 0.2525, 0.3375



81.2947, 0.2441, 0.3396



45.2747, 0.2373, 0.2647



17.1048, 0.2990, 0.3304



35.9632, 0.2300, 0.3479



2.8289, 0.2292, 0.3451



# Inverse Universe

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



33.1737, 0.4380, 0.3216



33.0638, 0.4818, 0.3207



48.1873, 0.4171, 0.3840



15.0692, 0.3283, 0.3276



9.8545, 0.6334, 0.3263

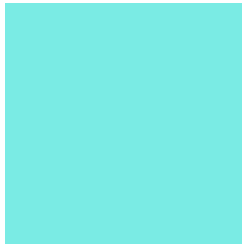


0.7792, 0.6159, 0.3167



# Previews

## White Background



This preview shows how the Yxy color 69.1557, 0.2525, 0.3375 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

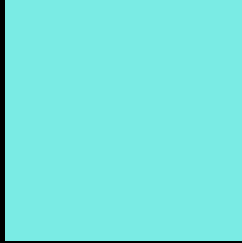
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.1557, 0.2525, 0.3375 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

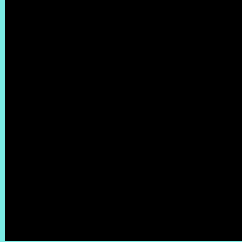
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.1557, 0.2525, 0.3375**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.1557, 0.2525, 0.3375.

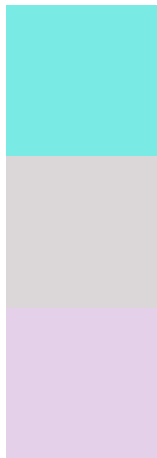


This preview shows how white text looks on a background with the Yxy color 69.1557, 0.2525, 0.3375.

# 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

69.1557, 0.2525, 0.3375

### Protanopia

68.1111, 0.3150, 0.3268

### Deuteranopia

67.9781, 0.3102, 0.3034



## Tritanopia

69.2825, 0.2448, 0.3074

# Trichromacy



## Original Color

69.1557, 0.2525, 0.3375



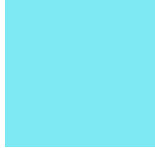
## Protanomaly

67.6002, 0.2882, 0.3313



## Deuteranomaly

66.7311, 0.2846, 0.3140



## Tritanomaly

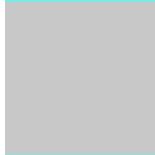
69.1243, 0.2473, 0.3179

# Monochromacy



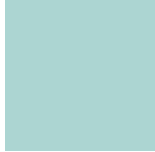
## Original Color

69.1557, 0.2525, 0.3375



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

61.0123, 0.2859, 0.3326

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.1557, 0.2525, 0.3375 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(122, 235, 228)` looks like.

```
.text, #text, p{  
    color:rgb(122, 235, 228)  
}
```

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(122, 235, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 235, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 69.1557, 0.2525, 0.3375 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(122, 235, 228) }
```

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

```
.border{ border-color:rgb(122, 235, 228) }
```

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

Here you see how a box with a 4 pixel rgb(122, 235, 228) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 235, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 235, 228);  
box-shadow:4px 4px 4px 4px rgb(122, 235,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.1557, 0.2525, 0.3375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 235, 228) }
```

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

```
.background{ background-color: rgb(122,  
235, 228) }
```

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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