

# Converting Colors

$Y_{xy}(66.1962, 0.2541, 0.3218)$

Have a look what the booklet for  
Yxy(66.1962, 0.2541, 0.3218)  
contains.

<b>Yxy(65.9723, 0.2542, 0.3215)</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(65.9723, 0.2542, 0.3215)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87E3E9
RGB	135, 227, 233
RGB Percent	53%, 89%, 91%
CMY	0.4707, 0.1098, 0.0863
CMYK	0.42, 0.03, 0.00, 0.09
HSL	184°, 69%, 72%
HSV	184°, 42%, 91%
XYZ	52.1622, 65.9723, 87.0670
YIQ	200.1760, -56.7580, -17.6380

# Conversions

## Conversions Part 2

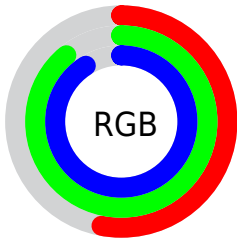
Format	Color
<a href="#">RYB</a>	<a href="#">135, 182, 233</a>
Decimal	<a href="#">8905705</a>
CIELab	<a href="#">84.98, -25.90, -11.53</a>
CIELCh	<a href="#">85, 28.354, 203.990</a>
Yxy	<a href="#">65.9723, 0.2542, 0.3215</a>
Android (android.graphics.Color)	<a href="#">4287095785</a> ( <a href="#">0xFF87E3E9</a> )
YUV	<a href="#">200.1760, 16.1822, -57.1594</a>
Hunter-Lab	<a href="#">81.2233, -27.5068, -6.6993</a>

# Details

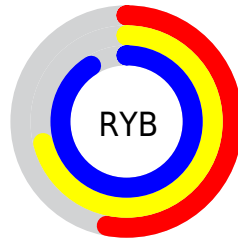
The Yxy color **65.9723, 0.2542, 0.3215** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **38.1019, 0.4190, 0.3362**, and the grayscale version is **57.7930, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.0775, 0.2768, 0.3289**, and **33.8779, 0.2406, 0.3189** is the 20% darker color. If you saturate the color by 10%, you get **63.4757, 0.2438, 0.3195**, and if you desaturate by 10%, it is **68.9033, 0.2663, 0.3235**.

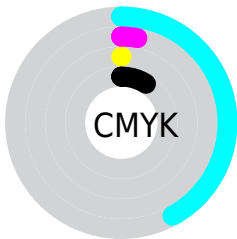
# Distribution



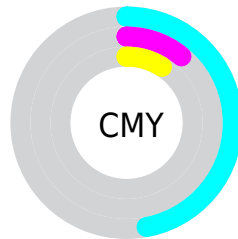
- Red (53%)
- Green (89%)
- Blue (91%)



- Red (53%)
- Yellow (71%)
- Blue (91%)



- Cyan (42%)
- Magenta (3%)
- Yellow (0%)
- Black (9%)




- Cyan (47%)
- Magenta (11%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.9723, 0.2542, 0.3215 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 65.9723, 0.2542, 0.3215 by changing the saturation by 10% instead.




 65.9723, 0.2542,  
0.3215

 65.9723, 0.2542,  
0.3215


446.2778, 0.2812,  
0.3257


 48.2499, 0.2481,  
0.3204


 113.4466, 0.2635,  
0.3231

 34.0248, 0.2405,  
0.3189


 143.9673, 0.2672,  
0.3236

 22.9127, 0.2310,  
0.3169


 179.5228, 0.2703,  
0.3241

 14.5290, 0.2187,  
0.3141

220.4977, 0.2731,  
0.3245

 8.4895, 0.2021,  
0.3098

267.2762, 0.2755,  
0.3249

 4.4098, 0.1788,  
0.3027

320.2428, 0.2776,

 1.9053, 0.1441,

0.3252

0.2895

379.7819, 0.2795,  
0.3254

0.5516, 0.0000,  
0.2718

0.0000, 0.0000,  
0.0000

65.9723, 0.2542,  
0.3215

65.9723, 0.2542,  
0.3215

63.4757, 0.2438,  
0.3195

68.9033, 0.2663,  
0.3235

61.3778, 0.2351,  
0.3174


72.2862, 0.2797,  
0.3253


59.6500, 0.2284,  
0.3153


76.1472, 0.2942,  
0.3271

58.2563, 0.2236,  
0.3132


80.5078, 0.3095,  
0.3287


 57.1535, 0.2207,  
0.3112


 85.3885, 0.3252,  
0.3302

 56.4315, 0.2193,  
0.3096

 86.8674, 0.3275,  
0.3315

 87.6868, 0.3274,  
0.3329

 88.5127, 0.3272,  
0.3343

 89.3451, 0.3271,  
0.3357

# Harmonies

## Analogous

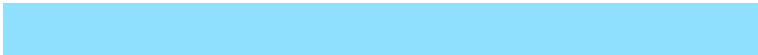
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



65.9723, 0.2765, 0.3557



65.9723, 0.2542, 0.3215



65.9723, 0.2469, 0.2921

# Triad

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



65.9723, 0.2542, 0.3215



65.9723, 0.3131, 0.2824



65.9723, 0.3715, 0.3830

# Complementary

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



65.9723, 0.2542, 0.3215



38.1019, 0.4190, 0.3362

# 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.



65.9723, 0.3832, 0.3601



65.9723, 0.2542, 0.3215



65.9723, 0.3485, 0.3037

# Square

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



65.9723, 0.2542, 0.3215



65.9723, 0.2794, 0.2718



65.9723, 0.3747, 0.3315



65.9723, 0.3441, 0.3924

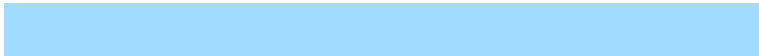


# Rectangle

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



65.9723, 0.2542, 0.3215



65.9723, 0.2511, 0.2790



65.9723, 0.3747, 0.3315



65.9723, 0.3775, 0.3765

# Sweetspot

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



65.9749, 0.2542, 0.3215



92.9628, 0.2927, 0.3269



65.3093, 0.3040, 0.4529



19.6646, 0.2895, 0.3265



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.



65.9749, 0.2542, 0.3215



78.4293, 0.2455, 0.3198



43.3001, 0.2439, 0.2586



16.9553, 0.2981, 0.3275



32.0909, 0.2194, 0.3099



2.5677, 0.2202, 0.3127



# Inverse Universe

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



40.1856, 0.3230, 0.2312



43.2975, 0.3252, 0.2143



55.4124, 0.3948, 0.3897



15.2970, 0.3147, 0.3072



12.7324, 0.3368, 0.1629

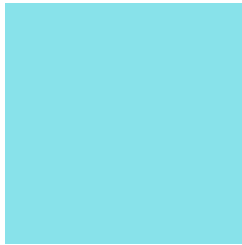


1.0046, 0.3344, 0.1616



# Previews

## White Background



This preview shows how the Yxy color 65.9723, 0.2542, 0.3215 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

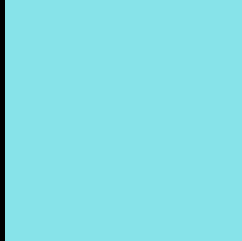
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.9723, 0.2542, 0.3215 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

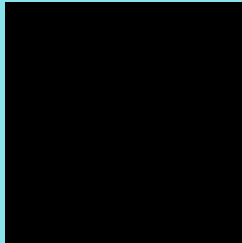
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 65.9723, 0.2542, 0.3215**

## Background



This preview shows how black text looks on a background with the Yxy color 65.9723, 0.2542, 0.3215.

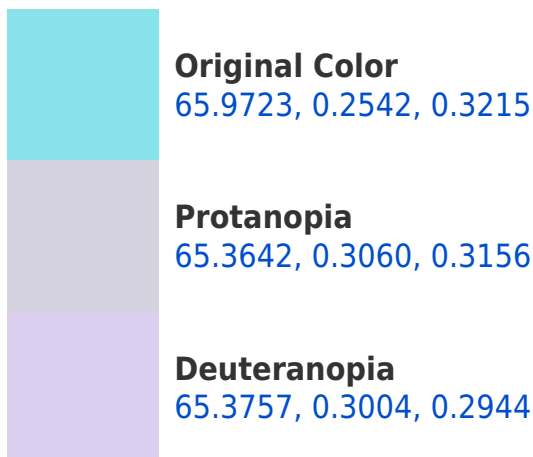


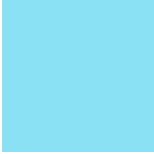
This preview shows how white text looks on a background with the Yxy color 65.9723, 0.2542, 0.3215.

# 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





## **Tritanopia**

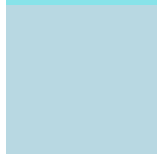
65.7854, 0.2500, 0.3060

# Trichromacy



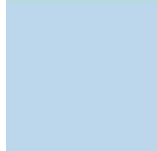
## Original Color

65.9723, 0.2542, 0.3215



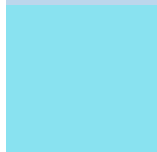
## Protanomaly

64.7931, 0.2842, 0.3172



## Deuteranomaly

64.8406, 0.2807, 0.3037



## Tritanomaly

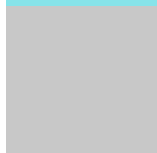
66.0023, 0.2516, 0.3119

# Monochromacy



## Original Color

65.9723, 0.2542, 0.3215



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

60.0768, 0.2871, 0.3265

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.9723, 0.2542, 0.3215 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(135, 227, 233)` looks like.

```
.text, #text, p{  
    color:rgb(135, 227, 233)  
}
```

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(135, 227, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 227, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 65.9723, 0.2542, 0.3215 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(135, 227, 233) }
```

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

```
.border{ border-color:rgb(135, 227, 233) }
```

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

Here you see how a box with a 4 pixel rgb(135, 227, 233) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 227, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 227, 233);  
box-shadow:4px 4px 4px 4px rgb(135, 227,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.9723, 0.2542, 0.3215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 227, 233) }
```

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

```
.background{ background-color: rgb(135,  
227, 233) }
```

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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