

# Converting Colors

$Y_{xy}(65.9153, 0.2547, 0.3227)$

Have a look what the booklet for  
Yxy(65.9153, 0.2547, 0.3227)  
contains.

<b>Yxy(65.9153, 0.2547, 0.3227)</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(65.9153, 0.2547, 0.3227)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87E3E8
RGB	135, 227, 232
RGB Percent	53%, 89%, 91%
CMY	0.4706, 0.1098, 0.0902
CMYK	0.42, 0.02, 0.00, 0.09
HSL	183°, 68%, 72%
HSV	183°, 42%, 91%
XYZ	52.0255, 65.9153, 86.3211
YIQ	200.0620, -56.4370, -17.9490

# Conversions

## Conversions Part 2

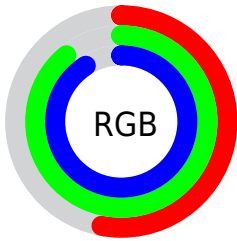
<b>Format</b>	<b>Color</b>
<b>RYB</b>	135, 182, 232
Decimal	8905704
CIELab	84.95, -26.14, -11.05
CIElCh	85, 28.376, 202.911
Yxy	65.9153, 0.2547, 0.3227
Android (android.graphics.Color)	4287095784 (0xFF87E3E8)
YUV	200.0620, 15.7454, -57.0594
Hunter-Lab	81.1882, -27.6965, -6.2066

# Details

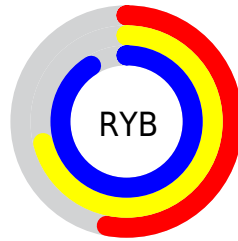
The Yxy color **65.9153, 0.2547, 0.3227** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **37.6591, 0.4184, 0.3350**, and the grayscale version is **57.7277, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.0775, 0.2768, 0.3289**, and **33.8382, 0.2412, 0.3206** is the 20% darker color. If you saturate the color by 10%, you get **63.5477, 0.2443, 0.3210**, and if you desaturate by 10%, it is **68.7118, 0.2667, 0.3244**.

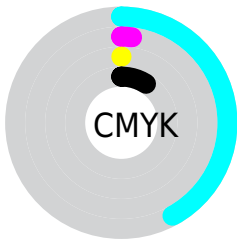
# Distribution



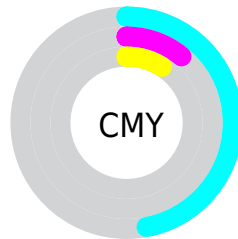
- Red (53%)
- Green (89%)
- Blue (91%)



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



- Cyan (42%)
- Magenta (2%)
- Yellow (0%)
- Black (9%)




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


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.9153, 0.2547, 0.3227 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 65.9153, 0.2547, 0.3227 by changing the saturation by 10% instead.





 65.9153, 0.2547,  
0.3227


 65.9153, 0.2547,  
0.3227


446.0739, 0.2815,  
0.3263


 48.2036, 0.2486,  
0.3217

 113.3648, 0.2640,  
0.3241

 33.9882, 0.2411,  
0.3204


 143.8714, 0.2676,  
0.3246

 22.8845, 0.2317,  
0.3186


 179.4117, 0.2707,  
0.3250

 14.5083, 0.2194,  
0.3161

220.3702, 0.2734,  
0.3253

 8.4750, 0.2029,  
0.3122

267.1313, 0.2758,  
0.3256

 4.4004, 0.1796,  
0.3057

320.0794, 0.2779,

 1.9000, 0.1450,

0.3259

0.2934

379.5988, 0.2798,  
0.3261

0.5483, 0.0000,  
0.2774

0.0000, 0.0000,  
0.0000

65.9153, 0.2547,  
0.3227

65.9153, 0.2547,  
0.3227

63.5477, 0.2443,  
0.3210

68.7118, 0.2667,  
0.3244

61.5737, 0.2357,  
0.3192


71.9546, 0.2801,  
0.3259

59.9652, 0.2291,  
0.3175

75.6692, 0.2946,  
0.3274

58.6868, 0.2244,  
0.3157


79.8772, 0.3099,  
0.3288

 57.6958, 0.2215,  
0.3140


 84.5988, 0.3257,  
0.3300

 57.0423, 0.2202,  
0.3126

 86.0276, 0.3283,  
0.3312

 86.7104, 0.3282,  
0.3324

 87.3978, 0.3280,  
0.3335

 88.0898, 0.3279,  
0.3347

# Harmonies

## Analogous

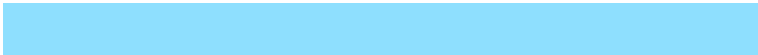
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



65.9153, 0.2775, 0.3569



65.9153, 0.2547, 0.3227



65.9153, 0.2468, 0.2929

# Triad

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



65.9153, 0.2547, 0.3227



65.9153, 0.3118, 0.2818



65.9153, 0.3723, 0.3824

# Complementary

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



65.9153, 0.2547, 0.3227



37.6591, 0.4184, 0.3350

# 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.



65.9153, 0.3833, 0.3592



65.9153, 0.2547, 0.3227



65.9153, 0.3473, 0.3027

# Square

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



65.9153, 0.2547, 0.3227



65.9153, 0.2783, 0.2716



65.9153, 0.3741, 0.3304



65.9153, 0.3453, 0.3924

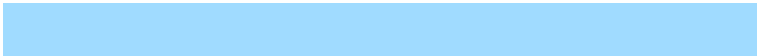


# Rectangle

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



65.9153, 0.2547, 0.3227



65.9153, 0.2507, 0.2795



65.9153, 0.3741, 0.3304



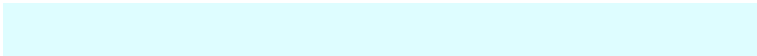
65.9153, 0.3781, 0.3758

# Sweetspot

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



65.9179, 0.2547, 0.3227



93.1622, 0.2927, 0.3272



64.7515, 0.3041, 0.4519



19.7145, 0.2895, 0.3269



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.



65.9179, 0.2547, 0.3227



79.1751, 0.2458, 0.3213



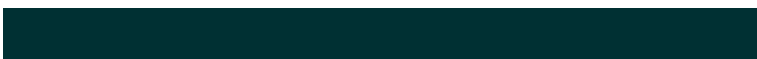
43.0771, 0.2443, 0.2592



16.2025, 0.2982, 0.3277



31.7272, 0.2203, 0.3129



2.3838, 0.2210, 0.3154



# Inverse Universe

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



40.0302, 0.3220, 0.2310



43.3728, 0.3241, 0.2133



55.0204, 0.3942, 0.3893



14.6017, 0.3146, 0.3070



12.4006, 0.3342, 0.1615

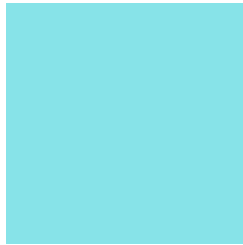


0.9203, 0.3321, 0.1603



# Previews

## White Background



This preview shows how the Yxy color 65.9153, 0.2547, 0.3227 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

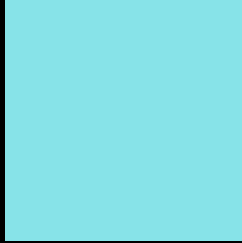
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.9153, 0.2547, 0.3227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

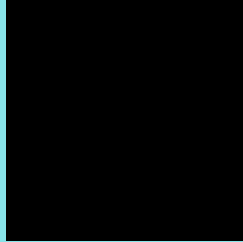
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 65.9153, 0.2547, 0.3227**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.9153, 0.2547, 0.3227.



This preview shows how white text looks on a background with the Yxy color 65.9153, 0.2547, 0.3227.

# 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

65.9153, 0.2547, 0.3227

### Protanopia

65.3107, 0.3067, 0.3167

### Deuteranopia

64.9927, 0.3018, 0.2944



## Tritanopia

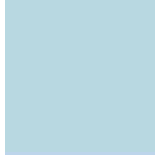
65.7248, 0.2504, 0.3072

# Trichromacy



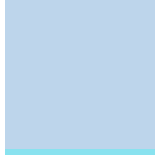
## Original Color

65.9153, 0.2547, 0.3227



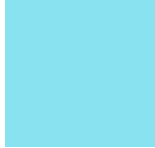
## Protanomaly

64.7383, 0.2848, 0.3184



## Deuteranomaly

64.4055, 0.2819, 0.3037



## Tritanomaly

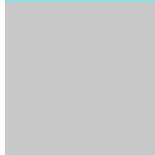
65.9431, 0.2521, 0.3131

# Monochromacy



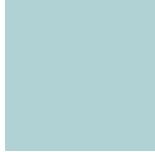
## Original Color

65.9153, 0.2547, 0.3227



## 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 65.9153, 0.2547, 0.3227 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, 232)` looks like.

```
.text, #text, p{  
    color:rgb(135, 227, 232)  
}
```

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, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 227, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 65.9153, 0.2547, 0.3227 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, 232) }
```

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

```
.border{ border-color:rgb(135, 227, 232) }
```

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, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 227, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 227, 232);  
box-shadow:4px 4px 4px 4px rgb(135, 227,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.9153, 0.2547, 0.3227 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, 232) }
```

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

```
.background{ background-color: rgb(135,  
227, 232) }
```

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