

# Converting Colors

$Y_{xy}(65.7654, 0.2270, 0.3338)$

Have a look what the booklet for  
Yxy(65.7654, 0.2270, 0.3338)  
contains.

<b>Yxy(65.9658, 0.2271, 0.3340)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(65.9658, 0.2271, 0.3340)**

# Conversions

## Conversions Part 1

Format	Color
Hex	15ECE8
RGB	21, 236, 232
RGB Percent	8%, 93%, 91%
CMY	0.9194, 0.0745, 0.0903
CMYK	0.91, 0.00, 0.02, 0.07
HSL	179°, 85%, 50%
HSV	179°, 91%, 93%
XYZ	44.8528, 65.9658, 86.6838
YIQ	171.2590, -126.8560, -46.8240

# Conversions

## Conversions Part 2

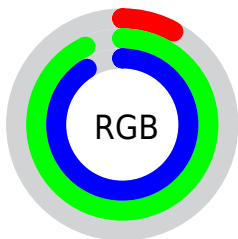
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	21, 130, 236
Decimal	1436904
CIE Lab	84.98, -45.98, -11.26
CIE LCh	85, 47.341, 193.761
Yxy	65.9658, 0.2271, 0.3340
Android (android.graphics.Color)	4279626984 (0xFF15ECE8)
YUV	171.2590, 29.9453, -131.7771
Hunter-Lab	81.2193, -43.5585, -6.4255

# Details

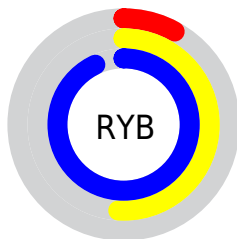
The Yxy color **65.9658, 0.2271, 0.3340** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.4207, 0.6249, 0.3287**, and the grayscale version is **40.6810, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **35.3748, 0.2261, 0.3338** is the 20% darker color. If you saturate the color by 10%, you get **65.7919, 0.2263, 0.3345**, and if you desaturate by 10%, it is **66.3776, 0.2294, 0.3334**.

# Distribution



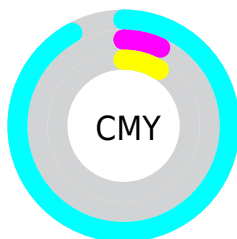
- Red (8%)
- Green (93%)
- Blue (91%)



- Red (8%)
- Yellow (51%)
- Blue (93%)



- Cyan (91%)
- Magenta (0%)
- Yellow (2%)
- Black (7%)




- Cyan (92%)
- Magenta (7%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.9658, 0.2271, 0.3340 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 65.9658, 0.2271, 0.3340 by changing the saturation by 10% instead.




 65.9658, 0.2271,  
0.3340

 65.9658, 0.2271,  
0.3340


446.2546, 0.2663,  
0.3329


 48.2446, 0.2183,  
0.3340


 113.4372, 0.2406,  
0.3338

 34.0207, 0.2076,  
0.3337


 143.9563, 0.2458,  
0.3337

 22.9095, 0.1943,  
0.3332


 179.5102, 0.2504,  
0.3336

 14.5267, 0.1773,  
0.3321

 220.4831, 0.2544,  
0.3334

 8.4879, 0.1549,  
0.3297

 267.2597, 0.2579,  
0.3333

 4.4087, 0.1248,  
0.3245

320.2242, 0.2610,

 1.9047, 0.0751,

0.3331

379.7610, 0.2638,  
0.3330

0.3153

■ 0.5512, 0.0000,  
0.2751

■ 0.0000, 0.0000,  
0.0000

■ 65.9658, 0.2271,  
0.3340

■ 65.9658, 0.2271,  
0.3340

■ 65.7919, 0.2263,  
0.3345

■ 66.3776, 0.2294,  
0.3334

■ 67.0839, 0.2334,  
0.3328

■ 68.1311, 0.2394,  
0.3322

■ 69.5558, 0.2473,  
0.3316

■ 71.3900, 0.2571,  
0.3310

■ 73.6621, 0.2686,  
0.3305

■ 76.3982, 0.2815,  
0.3300

■ 79.6223, 0.2957,  
0.3295

■ 83.3566, 0.3107,  
0.3291

# Harmonies

## Analogous

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



65.9658, 0.2686, 0.3935



65.9658, 0.2271, 0.3340



65.9658, 0.2083, 0.2801

# Triad

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



65.9658, 0.2271, 0.3340



65.9658, 0.2920, 0.2472



65.9658, 0.4194, 0.4034

# Complementary

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



65.9658, 0.2271, 0.3340



18.4207, 0.6249, 0.3287

# 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.



65.9658, 0.4297, 0.3603



65.9658, 0.2271, 0.3340



65.9658, 0.3521, 0.2750

# Square

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



65.9658, 0.2271, 0.3340



65.9658, 0.2428, 0.2367



65.9658, 0.4045, 0.3149



65.9658, 0.3799, 0.4324



# Rectangle

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



65.9658, 0.2271, 0.3340



65.9658, 0.2094, 0.2554



65.9658, 0.4045, 0.3149



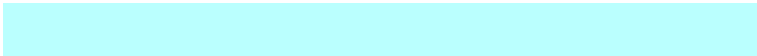
65.9658, 0.4266, 0.3899

# Sweetspot

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



65.9683, 0.2271, 0.3340



89.1151, 0.2738, 0.3303



60.2852, 0.3012, 0.5934



18.8455, 0.2695, 0.3304



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.



65.9683, 0.2271, 0.3340



78.4362, 0.2263, 0.3345



23.6653, 0.1852, 0.1814



17.1167, 0.2984, 0.3294



36.2688, 0.2262, 0.3344



2.8495, 0.2260, 0.3336



# Inverse Universe

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



18.4207, 0.6249, 0.3287



21.2705, 0.6388, 0.3292



31.5817, 0.5347, 0.4062



15.0586, 0.3290, 0.3286



9.8372, 0.6380, 0.3289

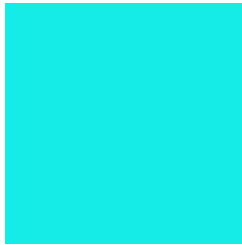


0.7741, 0.6325, 0.3258



# Previews

## White Background



This preview shows how the Yxy color 65.9658, 0.2271, 0.3340 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

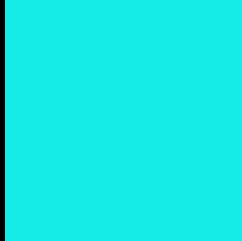
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.9658, 0.2271, 0.3340 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

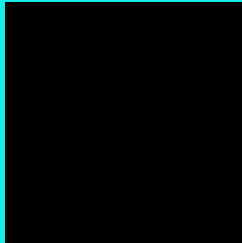
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

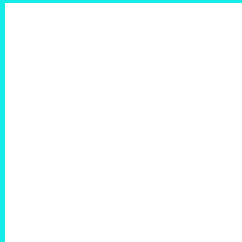
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 65.9658, 0.2271, 0.3340**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.9658, 0.2271, 0.3340.

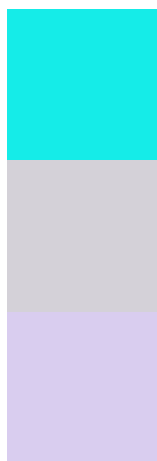


This preview shows how white text looks on a background with the Yxy color 65.9658, 0.2271, 0.3340.

# 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

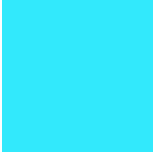
65.9765, 0.2271, 0.3340

### Protanopia

64.5558, 0.3101, 0.3211

### Deuteranopia

64.6464, 0.2983, 0.2921



## Tritanopia

65.9842, 0.2220, 0.3050

# Trichromacy



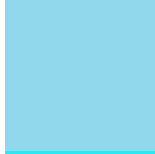
## Original Color

65.9765, 0.2271, 0.3340



## Protanomaly

61.6877, 0.2618, 0.3251



## Deuteranomaly

61.2789, 0.2561, 0.3044



## Tritanomaly

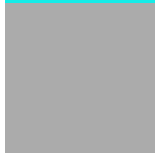
65.8695, 0.2234, 0.3148

# Monochromacy



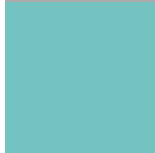
## Original Color

65.9765, 0.2271, 0.3340



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

46.5935, 0.2587, 0.3317

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.9658, 0.2271, 0.3340 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(21, 236, 232)` looks like.

```
.text, #text, p{  
    color:rgb(21, 236, 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(21, 236, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 236, 232) }
```

## Border

The CSS property to change the border of an element to Yxy 65.9658, 0.2271, 0.3340 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(21, 236, 232) }
```

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

```
.border{ border-color:rgb(21, 236, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(21, 236, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 236, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 236, 232);  
box-shadow:4px 4px 4px 4px rgb(21, 236,  
232) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.9658, 0.2271, 0.3340 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 236, 232) }
```

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

```
.background{ background-color: rgb(21, 236,  
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](#).

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