

# Converting Colors

$Y_{xy}(100.0000, 0.2015, 0.3807)$

Have a look what the booklet for  
Yxy(100.0000, 0.2015, 0.3807)  
contains.

<b>Yxy(78.6118, 0.2253, 0.3312)</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> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

# Color

**Yxy(78.6118, 0.2253, 0.3312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFFD
RGB	0, 255, 253
RGB Percent	0%, 100%, 99%
CMY	1.0000, 0.0000, 0.0079
CMYK	1.00, 0.00, 0.01, 0.00
HSL	180°, 100%, 50%
HSV	180°, 100%, 100%
XYZ	53.4760, 78.6118, 105.2667
YIQ	178.5270, -151.3380, -54.6820

# Conversions

## Conversions Part 2

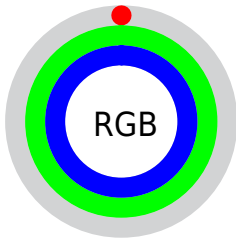
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 128, 255</a>
Decimal	<a href="#">65533</a>
CIELab	<a href="#">91.06, -48.69, -13.18</a>
CIELCh	<a href="#">91, 50.438, 195.145</a>
Yxy	<a href="#">78.6118, 0.2253, 0.3312</a>
Android (android.graphics.Color)	<a href="#">4278255613</a> ( <a href="#">0xFF00FFFD</a> )
YUV	<a href="#">178.5270, 36.7152, -156.5682</a>
Hunter-Lab	<a href="#">88.6633, -47.5011, -8.3286</a>

# Details

The Yxy color **78.6118, 0.2253, 0.3312** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.2644, 0.6395, 0.3297**, and the grayscale version is **44.6749, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **43.9180, 0.2251, 0.3303** is the 20% darker color. If you saturate the color by 10%, you get **78.6107, 0.2253, 0.3312**, and if you desaturate by 10%, it is **78.8366, 0.2264, 0.3309**.

# Distribution



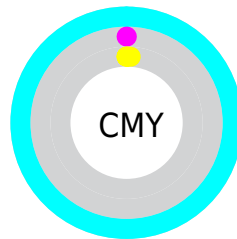
- Red (0%)
- Green (100%)
- Blue (99%)



- Red (0%)
- Yellow (50%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (1%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.6118, 0.2253, 0.3312 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 78.6118, 0.2253, 0.3312 by changing the saturation by 10% instead.




 78.6118, 0.2253,  
0.3312


 78.6118, 0.2253,  
0.3312


490.2421, 0.2639,  
0.3315


 58.5767, 0.2170,  
0.3308


 131.4122, 0.2383,  
0.3315


 42.2724, 0.2069,  
0.3303


 164.9463, 0.2435,  
0.3316

 29.3147, 0.1945,  
0.3293


 203.7488, 0.2480,  
0.3316

 19.3190, 0.1791,  
0.3277

 248.2042, 0.2520,  
0.3316

 11.9010, 0.1593,  
0.3249

298.6968, 0.2555,  
0.3316

 6.6763, 0.1334,  
0.3198


355.6111, 0.2586,


 3.2605, 0.0989,


0.3316


0.3096


419.3314, 0.2614,  
0.3315

 1.2692, 0.0000,  
0.3033

 0.1172, 0.0000,  
0.1003

 78.6118, 0.2253,  
0.3312


 78.6118, 0.2253,  
0.3312

 78.6107, 0.2253,  
0.3312

 78.8366, 0.2264,  
0.3309

 79.3402, 0.2289,  
0.3307

 80.2064, 0.2332,  
0.3304

 81.4870, 0.2395,  
0.3302

■ 83.2257, 0.2477,  
0.3300

■ 85.4604, 0.2578,  
0.3297

■ 88.2253, 0.2696,  
0.3295

■ 91.5514, 0.2829,  
0.3293

■ 95.4674, 0.2974,  
0.3292

# Harmonies

## Analogous

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



78.6118, 0.2661, 0.3913



78.6118, 0.2253, 0.3312



78.6118, 0.2076, 0.2778

# Triad

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



78.6118, 0.2253, 0.3312



78.6118, 0.2946, 0.2477



78.6118, 0.4187, 0.4054

# Complementary

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



78.6118, 0.2253, 0.3312



21.2644, 0.6395, 0.3297

# 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.



78.6118, 0.4306, 0.3625



78.6118, 0.2253, 0.3312



78.6118, 0.3550, 0.2763

# Square

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



78.6118, 0.2253, 0.3312



78.6118, 0.2444, 0.2363



78.6118, 0.4069, 0.3169



78.6118, 0.3779, 0.4337



# Rectangle

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



78.6118, 0.2253, 0.3312



78.6118, 0.2094, 0.2537



78.6118, 0.4069, 0.3169



78.6118, 0.4264, 0.3920

# Sweetspot

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



78.6107, 0.2253, 0.3312



88.2253, 0.2696, 0.3295



71.5474, 0.3002, 0.5998



18.6201, 0.2644, 0.3296



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.



78.6107, 0.2253, 0.3312



23.6548, 0.1778, 0.1601



20.4789, 0.2981, 0.3291



41.0769, 0.2253, 0.3311



4.0003, 0.2252, 0.3308

# Inverse Universe

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



21.2644, 0.6395, 0.3297



35.4880, 0.5486, 0.4026



17.9894, 0.3293, 0.3289



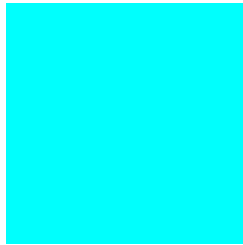
11.1121, 0.6393, 0.3295



1.0827, 0.6373, 0.3285

# Previews

## White Background



This preview shows how the Yxy color 78.6118, 0.2253, 0.3312 looks on a white background.

## Color Contrast Check

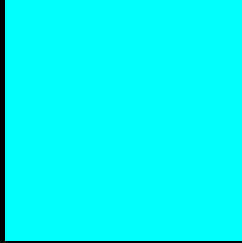
Large Text (above 18pt) WCAG AA × Fail

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 78.6118, 0.2253, 0.3312 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 78.6118, 0.2253, 0.3312**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.6118, 0.2253, 0.3312.



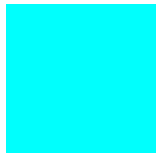
This preview shows how white text looks on a background with the Yxy color 78.6118, 0.2253, 0.3312.



# Color Blindness Simulation

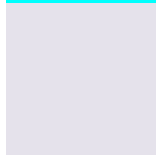
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

78.6118, 0.2253, 0.3312



### Protanopia

77.0489, 0.3090, 0.3196



### Deuteranopia

77.3190, 0.2993, 0.2965



## Tritanopia

77.6928, 0.2561, 0.3142

# Trichromacy



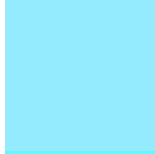
## Original Color

78.6118, 0.2253, 0.3312



## Protanomaly

73.0902, 0.2570, 0.3230



## Deuteranomaly

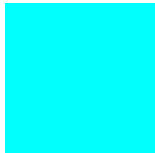
72.8683, 0.2520, 0.3070



## Tritanomaly

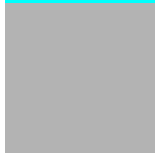
76.3299, 0.2364, 0.3205

# Monochromacy



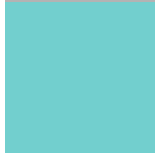
## Original Color

78.6118, 0.2253, 0.3312



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

52.6593, 0.2533, 0.3302

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.6118, 0.2253, 0.3312 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, 255, 253)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 253)  
}
```

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, 255, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 78.6118, 0.2253, 0.3312 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, 255, 253) }
```

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

```
.border{ border-color:rgb(0, 255, 253) }
```

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

Here you see how a box with a 4 pixel rgb(0, 255, 253) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 253);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
253) }
```

# Background

The CSS property to change the background color of an element to Yxy 78.6118, 0.2253, 0.3312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 253) }
```

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

```
.background{ background-color: rgb(0, 255,  
253) }
```

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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