

# Converting Colors

$Y_{xy}(100.0000, 0.1892, 0.3980)$

Have a look what the booklet for  
Yxy(100.0000, 0.1892, 0.3980)  
contains.

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# Color

**Yxy(78.1738, 0.2277, 0.3398)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFF6
RGB	0, 255, 246
RGB Percent	0%, 100%, 96%
CMY	1.0000, 0.0000, 0.0354
CMYK	1.00, 0.00, 0.04, 0.00
HSL	178°, 100%, 50%
HSV	178°, 100%, 100%
XYZ	52.3843, 78.1738, 99.5002
YIQ	177.7290, -149.0910, -56.8590

# Conversions

## Conversions Part 2

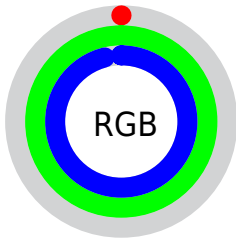
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 130, 255</a>
Decimal	<a href="#">65526</a>
CIELab	<a href="#">90.86, -50.66, -9.84</a>
CIELCh	<a href="#">91, 51.603, 190.995</a>
Yxy	<a href="#">78.1738, 0.2277, 0.3398</a>
Android (android.graphics.Color)	<a href="#">4278255606 (0xFF00FFF6)</a>
YUV	<a href="#">177.7290, 33.6576, -155.8683</a>
Hunter-Lab	<a href="#">88.4159, -48.9711, -4.8317</a>

# Details

The Yxy color **78.1738, 0.2277, 0.3398** 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 **21.2798, 0.6376, 0.3286**, and the grayscale version is **44.2468, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **43.6502, 0.2277, 0.3397** is the 20% darker color. If you saturate the color by 10%, you get **78.1727, 0.2277, 0.3398**, and if you desaturate by 10%, it is **78.4413, 0.2286, 0.3386**.

# Distribution



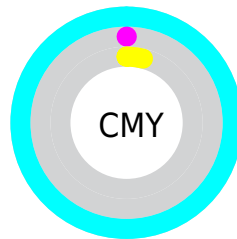
- Red (0%)
- Green (100%)
- Blue (96%)



- Red (0%)
- Yellow (51%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (4%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.1738, 0.2277, 0.3398 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 78.1738, 0.2277, 0.3398 by changing the saturation by 10% instead.





 78.1738, 0.2277,  
0.3398


 78.1738, 0.2277,  
0.3398

488.7569, 0.2655,  
0.3360


 58.2168, 0.2195,  
0.3404


 130.7951, 0.2405,  
0.3387


 41.9829, 0.2096,  
0.3410

 164.2281, 0.2455,  
0.3382

 29.0879, 0.1973,  
0.3416


 202.9220, 0.2499,  
0.3377

 19.1473, 0.1820,  
0.3420

 247.2610, 0.2538,  
0.3373

 11.7768, 0.1622,  
0.3418

297.6296, 0.2572,  
0.3369

 6.5919, 0.1361,  
0.3405

354.4122, 0.2603,

 3.2082, 0.1009,

0.3366

417.9932, 0.2630,  
0.3363

0.3359

1.2414, 0.0000,  
0.3400

0.0951, 0.0000,  
0.1073

78.1738, 0.2277,  
0.3398

78.1738, 0.2277,  
0.3398


78.1727, 0.2277,  
0.3398


78.4413, 0.2286,  
0.3386


78.9878, 0.2309,  
0.3375


79.8971, 0.2350,  
0.3363

81.2211, 0.2411,  
0.3351

 83.0035, 0.2491,  
0.3340

 85.2821, 0.2591,  
0.3329

 88.0912, 0.2706,  
0.3318

 91.4617, 0.2836,  
0.3308

 95.4224, 0.2978,  
0.3299

# Harmonies

## Analogous

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



78.1738, 0.2721, 0.4006



78.1738, 0.2277, 0.3398



78.1738, 0.2063, 0.2829

# Triad

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



78.1738, 0.2277, 0.3398



78.1738, 0.2860, 0.2432



78.1738, 0.4249, 0.4014

# Complementary

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



78.1738, 0.2277, 0.3398



21.2798, 0.6376, 0.3286

# 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.



78.1738, 0.4323, 0.3565



78.1738, 0.2277, 0.3398



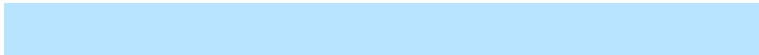
78.1738, 0.3474, 0.2702

# Square

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



78.1738, 0.2277, 0.3398



78.1738, 0.2372, 0.2342



78.1738, 0.4033, 0.3102



78.1738, 0.3863, 0.4337



# Rectangle

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



78.1738, 0.2277, 0.3398



78.1738, 0.2059, 0.2561



78.1738, 0.4033, 0.3102



78.1738, 0.4313, 0.3872

# Sweetspot

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



78.1727, 0.2277, 0.3398



88.0912, 0.2706, 0.3318



71.6037, 0.3007, 0.5994



18.5874, 0.2656, 0.3322



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.



78.1727, 0.2277, 0.3398



26.0493, 0.1810, 0.1717



20.4697, 0.2985, 0.3298



40.8518, 0.2277, 0.3396



3.9809, 0.2273, 0.3383

# Inverse Universe

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



21.2798, 0.6376, 0.3286



33.4645, 0.5585, 0.3948



17.9975, 0.3289, 0.3282



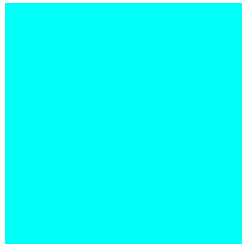
11.1236, 0.6365, 0.3280



1.0866, 0.6281, 0.3234

# Previews

## White Background



This preview shows how the Yxy color 78.1738, 0.2277, 0.3398 looks on a white background.

## Color Contrast Check

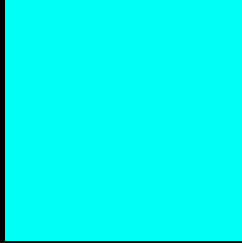
Large Text (above 18pt) WCAG AA × Fail

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 78.1738, 0.2277, 0.3398 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

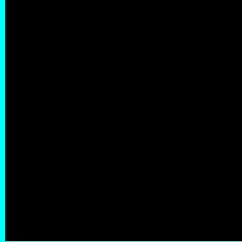
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

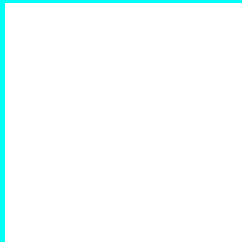
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.1738, 0.2277, 0.3398**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.1738, 0.2277, 0.3398.



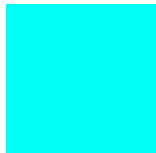
This preview shows how white text looks on a background with the Yxy color 78.1738, 0.2277, 0.3398.



# Color Blindness Simulation

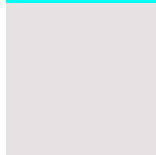
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



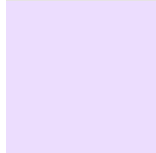
### Original Color

78.1738, 0.2277, 0.3398



### Protanopia

76.8171, 0.3142, 0.3269



### Deuteranopia

76.7015, 0.3019, 0.2956



## Tritanopia

77.4966, 0.2551, 0.3142

# Trichromacy



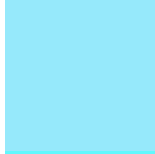
## Original Color

78.1738, 0.2277, 0.3398



## Protanomaly

72.6775, 0.2604, 0.3312



## Deuteranomaly

71.7269, 0.2539, 0.3080



## Tritanomaly

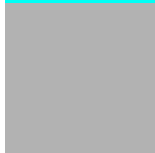
76.0912, 0.2366, 0.3228

# Monochromacy



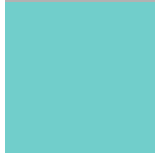
## Original Color

78.1738, 0.2277, 0.3398



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

51.9651, 0.2541, 0.3330

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.1738, 0.2277, 0.3398 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, 246)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 246)  
}
```

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, 246) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 246) }
```

## Border

The CSS property to change the border of an element to Yxy 78.1738, 0.2277, 0.3398 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, 246) }
```

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

```
.border{ border-color:rgb(0, 255, 246) }
```

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, 246)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 246); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 246);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
246) }
```

# Background

The CSS property to change the background color of an element to Yxy 78.1738, 0.2277, 0.3398 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, 246) }
```

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

```
.background{ background-color: rgb(0, 255,  
246) }
```

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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