

# Converting Colors

$Y_{xy}(80.0893, 0.2452, 0.3521)$

Have a look what the booklet for  
Yxy(80.0893, 0.2452, 0.3521)  
contains.

<b>Yxy(80.1175, 0.2451, 0.3517)</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(80.1175, 0.2451, 0.3517)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61FFEC
RGB	97, 255, 236
RGB Percent	38%, 100%, 93%
CMY	0.6192, 0.0000, 0.0747
CMYK	0.62, 0.00, 0.07, 0.00
HSL	173°, 100%, 69%
HSV	173°, 62%, 100%
XYZ	55.8339, 80.1175, 91.8492
YIQ	205.5920, -88.0690, -39.4050

# Conversions

## Conversions Part 2

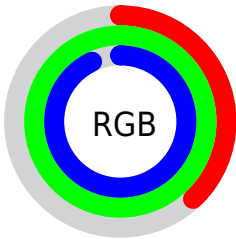
<b>Format</b>	<b>Color</b>
<b>RYB</b>	97, 181, 255
Decimal	6422508
CIELab	91.74, -45.63, -3.22
CIELCh	92, 45.748, 184.036
Yxy	80.1175, 0.2451, 0.3517
Android (android.graphics.Color)	4284612588 (0xFF61FFEC)
YUV	205.5920, 14.9911, -95.2352
Hunter-Lab	89.5084, -45.2941, 1.8153

# Details

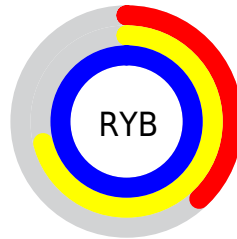
The Yxy color **80.1175, 0.2451, 0.3517** is a light color, and the websafe version is hex **33FFFF**. A complement of this color would be **31.0942, 0.4879, 0.3116**, and the grayscale version is **61.4106, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.4214, 0.2615, 0.3288**, and **43.6835, 0.2326, 0.3574** is the 20% darker color. If you saturate the color by 10%, you get **78.7588, 0.2400, 0.3559**, and if you desaturate by 10%, it is **81.9357, 0.2522, 0.3475**.

# Distribution



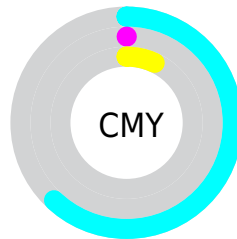
- Red (38%)
- Green (100%)
- Blue (93%)



- Red (38%)
- Yellow (71%)
- Blue (100%)



- Cyan (62%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (62%)
- Magenta (0%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.1175, 0.2451, 0.3517 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 80.1175, 0.2451, 0.3517 by changing the saturation by 10% instead.




 80.1175, 0.2451,  
0.3517


 80.1175, 0.2451,  
0.3517


495.3287, 0.2754,  
0.3418


 59.8150, 0.2384,  
0.3538


 133.5309, 0.2554,  
0.3484

 43.2696, 0.2303,  
0.3564


 167.4107, 0.2595,  
0.3471

 30.0967, 0.2202,  
0.3595


 206.5850, 0.2630,  
0.3459

 19.9120, 0.2074,  
0.3633

251.4383, 0.2661,  
0.3449

 12.3311, 0.1906,  
0.3682

302.3549, 0.2689,  
0.3440

 6.9696, 0.1678,  
0.3746

359.7192, 0.2713,

 3.4431, 0.1355,

0.3432

423.9157, 0.2735,  
0.3424

0.3828

1.3672, 0.0367,  
0.4145

0.1924, 0.0000,  
0.3068

80.1175, 0.2451,  
0.3517

80.1175, 0.2451,  
0.3517

78.7588, 0.2400,  
0.3559

81.9357, 0.2522,  
0.3475

77.8053, 0.2368,  
0.3602

84.2429, 0.2611,  
0.3435

77.2060, 0.2355,  
0.3644

87.0771, 0.2716,  
0.3396

76.9147, 0.2355,  
0.3678

90.4699, 0.2835,  
0.3360

 94.4504, 0.2964,  
0.3326

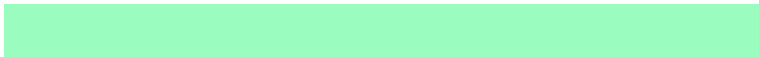
 99.0456, 0.3100,  
0.3296

99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



80.1175, 0.2887, 0.4011



80.1175, 0.2451, 0.3517



80.1175, 0.2204, 0.2994

# Triad

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



80.1175, 0.2451, 0.3517



80.1175, 0.2779, 0.2489



80.1175, 0.4161, 0.3857

# Complementary

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



80.1175, 0.2451, 0.3517



31.0942, 0.4879, 0.3116

# 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.



80.1175, 0.4147, 0.3448



80.1175, 0.2451, 0.3517



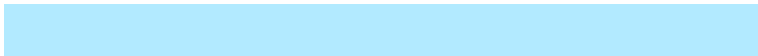
80.1175, 0.3308, 0.2698

# Square

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



80.1175, 0.2451, 0.3517



80.1175, 0.2381, 0.2454



80.1175, 0.3824, 0.3037



80.1175, 0.3881, 0.4170



# Rectangle

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



80.1175, 0.2451, 0.3517



80.1175, 0.2164, 0.2722



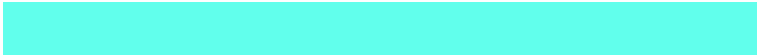
80.1175, 0.3824, 0.3037



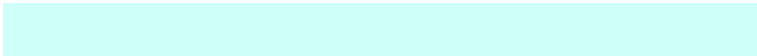
80.1175, 0.4192, 0.3726

# Sweetspot

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



80.1206, 0.2451, 0.3517



91.5701, 0.2871, 0.3350



76.2472, 0.3125, 0.5247



19.3690, 0.2835, 0.3360



0.0000, 0.0000, 0.0000

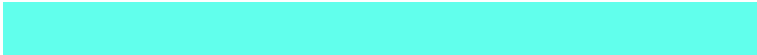


21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.1206, 0.2451, 0.3517



78.5291, 0.2391, 0.3568



49.7485, 0.2208, 0.2555



20.4415, 0.2996, 0.3319



40.2051, 0.2353, 0.3671



3.9248, 0.2340, 0.3623



# Inverse Universe

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



31.0942, 0.4879, 0.3116



25.9137, 0.5422, 0.3122



45.5688, 0.4675, 0.3864



18.0227, 0.3275, 0.3262



11.1709, 0.6255, 0.3219

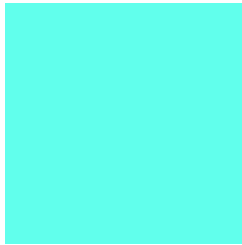


1.0985, 0.6014, 0.3087



# Previews

## White Background



This preview shows how the Yxy color 80.1175, 0.2451, 0.3517 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

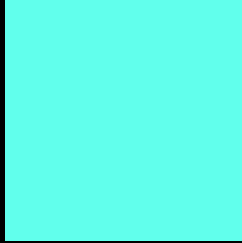
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.1175, 0.2451, 0.3517 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

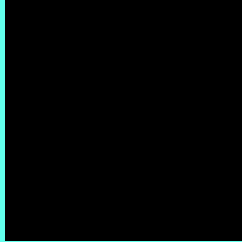
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.1175, 0.2451, 0.3517**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.1175, 0.2451, 0.3517.

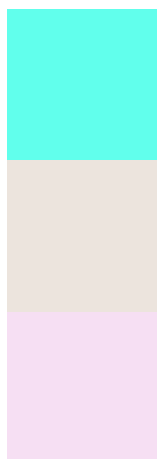


This preview shows how white text looks on a background with the Yxy color 80.1175, 0.2451, 0.3517.

# 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

80.1175, 0.2451, 0.3517

### Protanopia

78.5401, 0.3228, 0.3363

### Deuteranopia

78.8392, 0.3157, 0.3090



## Tritanopia

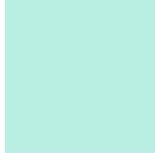
79.3822, 0.2639, 0.3145

# Trichromacy



## Original Color

80.1175, 0.2451, 0.3517



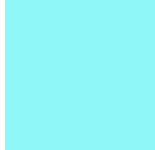
## Protanomaly

76.9543, 0.2862, 0.3425



## Deuteranomaly

76.9144, 0.2824, 0.3234



## Tritanomaly

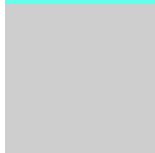
79.2281, 0.2552, 0.3277

# Monochromacy



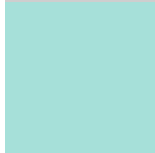
## Original Color

80.1175, 0.2451, 0.3517



## Achromatopsia

61.7207, 0.3127, 0.3290



## Achromatomaly

66.4281, 0.2788, 0.3374

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.1175, 0.2451, 0.3517 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(97, 255, 236)` looks like.

```
.text, #text, p{  
    color:rgb(97, 255, 236)  
}
```

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(97, 255, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 255, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 80.1175, 0.2451, 0.3517 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(97, 255, 236) }
```

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

```
.border{ border-color:rgb(97, 255, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 255, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 255, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 255, 236);  
box-shadow:4px 4px 4px 4px rgb(97, 255,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.1175, 0.2451, 0.3517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 255, 236) }
```

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

```
.background{ background-color: rgb(97, 255,  
236) }
```

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