

# Converting Colors

$Y_{xy}(100.0000, 0.2396, 0.3165)$

Have a look what the booklet for  
Yxy(100.0000, 0.2396, 0.3165)  
contains.

<b>Yxy(83.3292, 0.2475, 0.3288)</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(83.3292, 0.2475, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80FFFF
RGB	128, 255, 255
RGB Percent	50%, 100%, 100%
CMY	0.4975, 0.0000, 0.0000
CMYK	0.50, 0.00, 0.00, 0.00
HSL	180°, 100%, 75%
HSV	180°, 50%, 100%
XYZ	62.7250, 83.3292, 107.3801
YIQ	217.0270, -75.6920, -26.9240

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 192, 255
Decimal	8454143
CIE <sub>Lab</sub>	93.16, -35.19, -10.87
CIE <sub>LCh</sub>	93, 36.836, 197.166
Yxy	83.3292, 0.2475, 0.3288
Android (android.graphics.Color)	4286644223 (0xFF80FFFF)
YUV	217.0270, 18.7207, -78.0767
Hunter-Lab	91.2848, -37.0949, -5.8446

# Details

The Yxy color **83.3292, 0.2475, 0.3288** is a light color, and the websafe version is hex **66FFFF**. A complement of this color would be **38.2943, 0.4549, 0.3294**, and the grayscale version is **69.3383, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.5588, 0.2747, 0.3289**, and **45.4895, 0.2340, 0.3288** is the 20% darker color. If you saturate the color by 10%, you get **81.5943, 0.2392, 0.3288**, and if you desaturate by 10%, it is **85.5675, 0.2577, 0.3288**.

# Distribution



- Red (50%)
- Green (100%)
- Blue (100%)



- Red (50%)
- Yellow (75%)
- Blue (100%)



- Cyan (50%)
- Magenta (0%)
- Yellow (0%)
- Black (0%)




- Cyan (50%)
- Magenta (0%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.3292, 0.2475, 0.3288 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 83.3292, 0.2475, 0.3288 by changing the saturation by 10% instead.




 83.3292, 0.2475,  
0.3288

 83.3292, 0.2475,  
0.3288

506.0830, 0.2763,  
0.3296


 62.4618, 0.2412,  
0.3285


 138.0364, 0.2572,  
0.3292

 45.4059, 0.2337,  
0.3280


 172.6450, 0.2611,  
0.3293

 31.7773, 0.2244,  
0.3272


 212.6028, 0.2645,  
0.3294

 21.1914, 0.2126,  
0.3261

258.2941, 0.2674,  
0.3295

 13.2640, 0.1974,  
0.3242

310.1034, 0.2700,  
0.3295

 7.6106, 0.1769,  
0.3210

368.4151, 0.2723,

 3.8468, 0.1484,

0.3296

0.3149

433.6135, 0.2744,  
0.3296

■ 1.5882, 0.1006,  
0.3040

■ 0.3497, 0.0000,  
0.2329

■ 83.3292, 0.2475,  
0.3288

■ 83.3292, 0.2475,  
0.3288

■ 81.5943, 0.2392,  
0.3288

■ 85.5675, 0.2577,  
0.3288

■ 80.3151, 0.2328,  
0.3288

■ 88.3335, 0.2696,  
0.3289

■ 79.4516, 0.2284,  
0.3287

■ 91.6614, 0.2831,  
0.3289

■ 78.9520, 0.2258,  
0.3287

■ 95.5798, 0.2976,  
0.3290

■ 78.7341, 0.2247,  
0.3287

99.9964, 0.3127,  
0.3290

■ 78.7300, 0.2247,  
0.3287

99.9970, 0.3127,  
0.3290

99.9977, 0.3127,  
0.3290

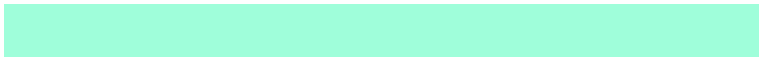
99.9983, 0.3127,  
0.3290

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.



83.3292, 0.2772, 0.3701



83.3292, 0.2475, 0.3288



83.3292, 0.2348, 0.2911

# Triad

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



83.3292, 0.2475, 0.3288



83.3292, 0.3031, 0.2697



83.3292, 0.3883, 0.3879

# Complementary

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



83.3292, 0.2475, 0.3288



38.2943, 0.4549, 0.3294

# 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.



83.3292, 0.3974, 0.3578



83.3292, 0.2475, 0.3288



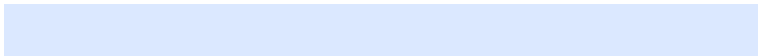
83.3292, 0.3463, 0.2922

# Square

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



83.3292, 0.2475, 0.3288



83.3292, 0.2652, 0.2605



83.3292, 0.3818, 0.3235



83.3292, 0.3586, 0.4047



# Rectangle

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



83.3292, 0.2475, 0.3288



83.3292, 0.2369, 0.2734



83.3292, 0.3818, 0.3235



83.3292, 0.3940, 0.3789

# Sweetspot

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



83.3324, 0.2475, 0.3288



93.4525, 0.2899, 0.3289



77.6779, 0.3053, 0.4880



19.8294, 0.2868, 0.3289



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.



83.3324, 0.2475, 0.3288



81.5609, 0.2390, 0.3288



49.3261, 0.2324, 0.2507



20.4814, 0.2980, 0.3290



41.1401, 0.2247, 0.3287



4.0057, 0.2247, 0.3287



# Inverse Universe

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



43.9505, 0.3184, 0.2088



37.9824, 0.3193, 0.1894



60.3282, 0.4177, 0.3944



18.3004, 0.3138, 0.3056



14.8811, 0.3209, 0.1542

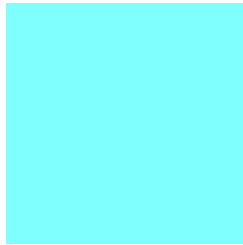


1.4489, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 83.3292, 0.2475, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

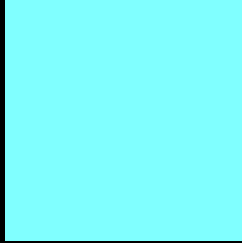
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.3292, 0.2475, 0.3288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

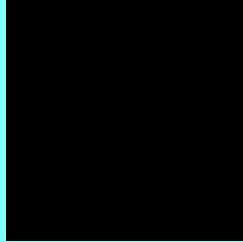
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.3292, 0.2475, 0.3288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.3292, 0.2475, 0.3288.

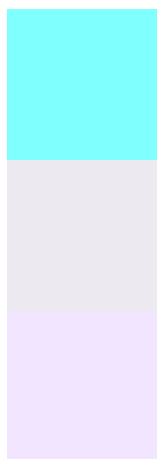


This preview shows how white text looks on a background with the Yxy color 83.3292, 0.2475, 0.3288.

# 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

83.3292, 0.2475, 0.3288

### Protanopia

82.4616, 0.3097, 0.3209

### Deuteranopia

82.1359, 0.3052, 0.3032



## Tritanopia

82.8685, 0.2741, 0.3171

# Trichromacy



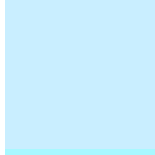
## Original Color

83.3292, 0.2475, 0.3288



## Protanomaly

81.4347, 0.2825, 0.3235



## Deuteranomaly

80.7866, 0.2798, 0.3109



## Tritanomaly

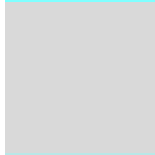
82.6796, 0.2632, 0.3212

# Monochromacy



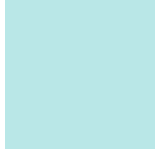
## Original Color

83.3292, 0.2475, 0.3288



## Achromatopsia

69.3872, 0.3127, 0.3290



## Achromatomaly

73.2356, 0.2830, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.3292, 0.2475, 0.3288 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(128, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 255, 255)  
}
```

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(128, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 255, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.3292, 0.2475, 0.3288 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(128, 255, 255) }
```

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

```
.border{ border-color:rgb(128, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 255,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.3292, 0.2475, 0.3288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 255, 255) }
```

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

```
.background{ background-color: rgb(128,  
255, 255) }
```

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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