

# Converting Colors

$Y_{xy}(83.1739, 0.2918, 0.3105)$

Have a look what the booklet for  
Yxy(83.1739, 0.2918, 0.3105)  
contains.

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# Color

**Yxy(83.1605, 0.2918, 0.3105)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDEDFF
RGB	221, 237, 255
RGB Percent	87%, 93%, 100%
CMY	0.1333, 0.0706, 0.0001
CMYK	0.13, 0.07, 0.00, 0.00
HSL	212°, 100%, 93%
HSV	212°, 13%, 100%
XYZ	78.1521, 83.1605, 106.5151
YIQ	234.2680, -15.3140, 2.2060

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	221, 232, 255
Decimal	14544383
CIE Lab	93.08, -1.77, -10.46
CIE LCh	93, 10.611, 260.396
Yxy	83.1605, 0.2918, 0.3105
Android (android.graphics.Color)	4292734463 (0xFFDDEDEFF)
YUV	234.2680, 10.2209, -11.6360
Hunter-Lab	91.1924, -6.6117, -5.4176

# Details

The Yxy color **83.1605, 0.2918, 0.3105** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **88.1987, 0.3348, 0.3468**, and the grayscale version is **82.4255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.2320, 0.2876, 0.3065** is the 20% darker color. If you saturate the color by 10%, you get **71.9398, 0.2754, 0.2947**, and if you desaturate by 10%, it is **95.5837, 0.3076, 0.3247**.

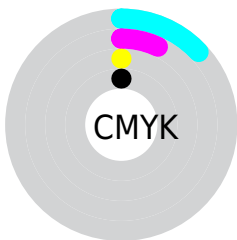
# Distribution



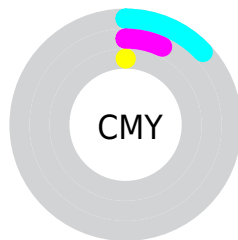
- Red (87%)
- Green (93%)
- Blue (100%)



- Red (87%)
- Yellow (91%)
- Blue (100%)



- Cyan (13%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (7%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.1605, 0.2918, 0.3105 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 83.1605, 0.2918, 0.3105 by changing the saturation by 10% instead.



83.1605, 0.2918,  
0.3105

83.1605, 0.2918,  
0.3105

505.5213, 0.3012,  
0.3189

62.3226, 0.2897,  
0.3086

137.8002, 0.2950,  
0.3134

45.2934, 0.2872,  
0.3064

172.3708, 0.2963,  
0.3145

31.6886, 0.2840,  
0.3035

212.2877, 0.2974,  
0.3155

21.1237, 0.2799,  
0.2998

257.9354, 0.2983,  
0.3163

13.2145, 0.2745,  
0.2949

309.6982, 0.2992,  
0.3171

7.5764, 0.2670,  
0.2881

367.9605, 0.2999,

3.8251, 0.2558,

0.3177

0.2778

433.1067, 0.3006,  
0.3183

■ 1.5762, 0.2376,  
0.2609

■ 0.3415, 0.1624,  
0.1971

■ 83.1605, 0.2918,  
0.3105

■ 83.1605, 0.2918,  
0.3105

■ 71.9398, 0.2754,  
0.2947

■ 95.5837, 0.3076,  
0.3247

■ 61.8710, 0.2586,  
0.2774

99.9982, 0.3127,  
0.3290

■ 52.9149, 0.2419,  
0.2586

■ 45.0257, 0.2258,  
0.2387

■ 38.1539, 0.2108,  
0.2179

■ 32.2449, 0.1975,  
0.1970

■ 27.2371, 0.1865,  
0.1765

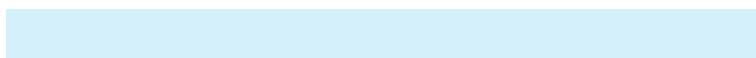
■ 23.0583, 0.1780,  
0.1570

■ 20.6658, 0.1736,  
0.1448

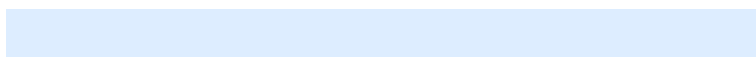
# Harmonies

## Analogous

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



83.1605, 0.2892, 0.3178



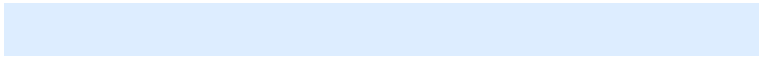
83.1605, 0.2918, 0.3105



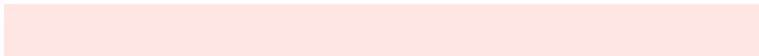
83.1605, 0.3000, 0.3083

# Triad

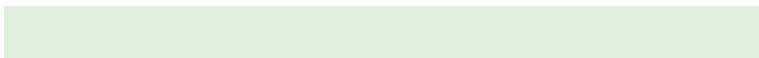
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.1605, 0.2918, 0.3105



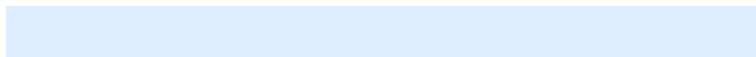
83.1605, 0.3331, 0.3292



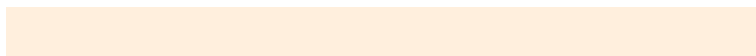
83.1605, 0.3134, 0.3476

# Complementary

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



83.1605, 0.2918, 0.3105



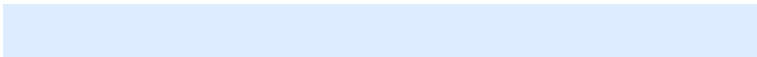
88.1987, 0.3348, 0.3468

# 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.



83.1605, 0.3253, 0.3505



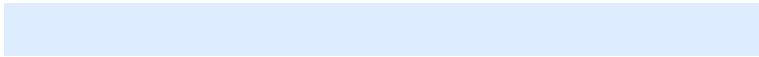
83.1605, 0.2918, 0.3105



83.1605, 0.3369, 0.3396

# Square

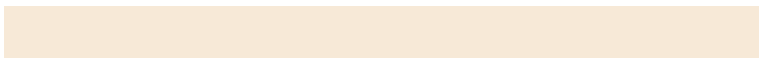
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.1605, 0.2918, 0.3105



83.1605, 0.3239, 0.3190



83.1605, 0.3340, 0.3474

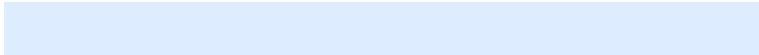


83.1605, 0.3015, 0.3394



# Rectangle

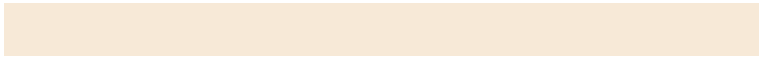
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.1605, 0.2918, 0.3105



83.1605, 0.3075, 0.3098



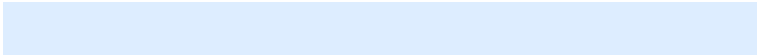
83.1605, 0.3340, 0.3474



83.1605, 0.3175, 0.3492

# Sweetspot

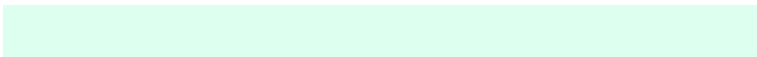
The Sweet Spot groups the original color and five complimentary colors.



83.1640, 0.2918, 0.3105



94.7212, 0.3066, 0.3237



93.0825, 0.3012, 0.3458



20.0665, 0.3054, 0.3227



0.0000, 0.0000, 0.0000

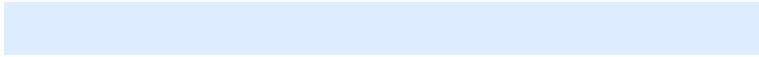


21.4041, 0.3127, 0.3290

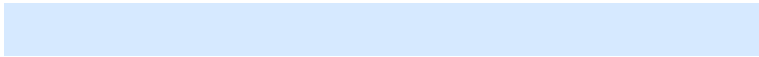


# Same Dimension

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



83.1640, 0.2918, 0.3105



80.0576, 0.2874, 0.3064



74.4029, 0.2917, 0.2937



18.7882, 0.2979, 0.3161



11.0943, 0.1744, 0.1478



1.2968, 0.1803, 0.1691



# Inverse Universe

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



79.0905, 0.3262, 0.3132



75.3612, 0.3294, 0.3099



97.8707, 0.3324, 0.3621



18.1295, 0.3220, 0.3179



11.8479, 0.5088, 0.2577

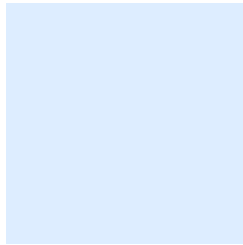


1.1755, 0.4818, 0.2428



# Previews

## White Background



This preview shows how the Yxy color 83.1605, 0.2918, 0.3105 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

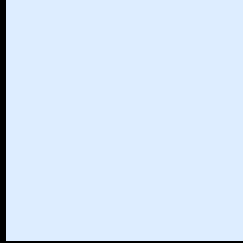
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.1605, 0.2918, 0.3105 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

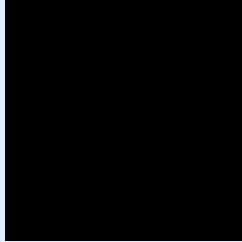
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

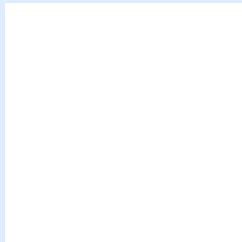
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.1605, 0.2918, 0.3105**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.1605, 0.2918, 0.3105.



This preview shows how white text looks on a background with the Yxy color 83.1605, 0.2918, 0.3105.

# 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

83.1605, 0.2918, 0.3105

### Protanopia

82.8621, 0.3011, 0.3088

### Deuteranopia

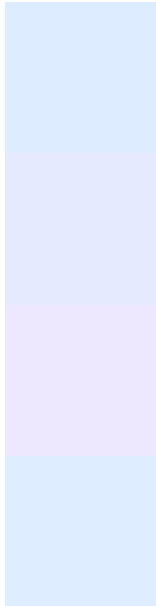
83.0328, 0.3085, 0.3034



## Tritanopia

83.3180, 0.2924, 0.3105

# Trichromacy



## Original Color

83.1605, 0.2918, 0.3105

## Protanomaly

82.6594, 0.2973, 0.3087

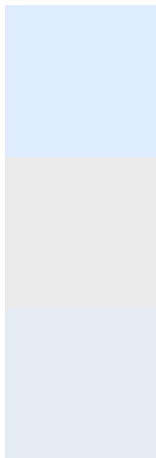
## Deuteranomaly

83.1104, 0.3025, 0.3060

## Tritanomaly

83.3180, 0.2924, 0.3105

# Monochromacy



## Original Color

83.1605, 0.2918, 0.3105

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

82.4855, 0.3045, 0.3218

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  83.1605, 0.2918, 0.3105 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(221, 237, 255)` looks like.

```
.text, #text, p{  
    color:rgb(221, 237, 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(221, 237, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 237, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.1605, 0.2918, 0.3105 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(221, 237, 255) }
```

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

```
.border{ border-color:rgb(221, 237, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 237, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 237, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 237, 255);  
box-shadow:4px 4px 4px 4px rgb(221, 237,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.1605, 0.2918, 0.3105 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 237, 255) }
```

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

```
.background{ background-color: rgb(221,  
237, 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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