

# Converting Colors

$Y_{xy}(82.2377, 0.3165, 0.3435)$

Have a look what the booklet for  
Yxy(82.2377, 0.3165, 0.3435)  
contains.

<b>Yxy(81.9766, 0.3161, 0.3426)</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(81.9766, 0.3161, 0.3426)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E5ECDF
RGB	229, 236, 223
RGB Percent	90%, 93%, 87%
CMY	0.1019, 0.0745, 0.1254
CMYK	0.03, 0.00, 0.05, 0.07
HSL	92°, 25%, 90%
HSV	92°, 5%, 93%
XYZ	75.6357, 81.9766, 81.6655
YIQ	232.4250, 0.0010, -5.5270

# Conversions

## Conversions Part 2

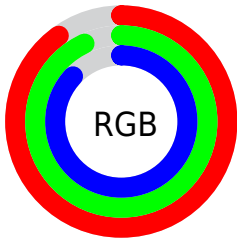
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	223, 236, 230
Decimal	15068383
CIE Lab	92.56, -4.61, 5.47
CIE LCh	93, 7.151, 130.151
Yxy	81.9766, 0.3161, 0.3426
Android (android.graphics.Color)	4293258463 (0xFFE5ECDF)
YUV	232.4250, -4.6465, -3.0037
Hunter-Lab	90.5409, -9.3320, 9.9006

# Details

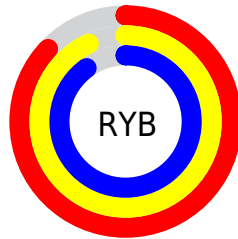
The Yxy color **81.9766, 0.3161, 0.3426** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **75.6677, 0.3092, 0.3154**, and the grayscale version is **81.0721, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.4683, 0.3171, 0.3453** is the 20% darker color. If you saturate the color by 10%, you get **78.7828, 0.3222, 0.3691**, and if you desaturate by 10%, it is **85.5074, 0.3100, 0.3184**.

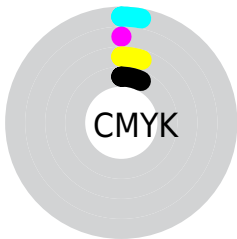
# Distribution



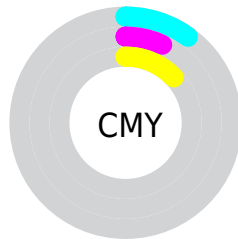
- Red (90%)
- Green (93%)
- Blue (87%)



- Red (87%)
- Yellow (93%)
- Blue (90%)



- Cyan (3%)
- Magenta (0%)
- Yellow (5%)
- Black (7%)



- Cyan (10%)
- Magenta (7%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.9766, 0.3161, 0.3426 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 81.9766, 0.3161, 0.3426 by changing the saturation by 10% instead.



81.9766, 0.3161,  
0.3426

81.9766, 0.3161,  
0.3426

501.5694, 0.3146,  
0.3364

61.3462, 0.3164,  
0.3440

136.1412, 0.3156,  
0.3405

44.5047, 0.3168,  
0.3457

170.4442, 0.3154,  
0.3396

31.0674, 0.3173,  
0.3479

210.0736, 0.3152,  
0.3389

20.6502, 0.3180,  
0.3507

255.4137, 0.3151,  
0.3383

12.8686, 0.3188,  
0.3545

306.8489, 0.3149,  
0.3377

7.3381, 0.3200,  
0.3599

364.7637, 0.3148,

3.6744, 0.3217,

0.3372

0.3683

429.5424, 0.3147,  
0.3368

■ 1.4932, 0.3244,  
0.3827

■ 0.2839, 0.3565,  
0.6435

■ 81.9766, 0.3161,  
0.3426

■ 81.9766, 0.3161,  
0.3426

■ 78.7828, 0.3222,  
0.3691

■ 85.5074, 0.3100,  
0.3184

■ 75.9049, 0.3281,  
0.3977

■ 88.3548, 0.3132,  
0.3107

■ 73.3353, 0.3334,  
0.4278

■ 88.4691, 0.3136,  
0.3107

■ 71.0621, 0.3378,  
0.4584

■ 69.0725, 0.3407,  
0.4884

■ 67.3527, 0.3419,  
0.5162

■ 65.8873, 0.3410,  
0.5401

■ 64.6589, 0.3380,  
0.5587

■ 63.6468, 0.3331,  
0.5714

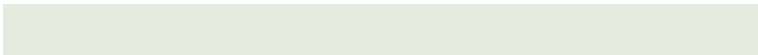
# Harmonies

## Analogous

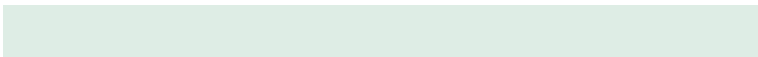
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



81.9766, 0.3236, 0.3432



81.9766, 0.3161, 0.3426



81.9766, 0.3078, 0.3382

# Triad

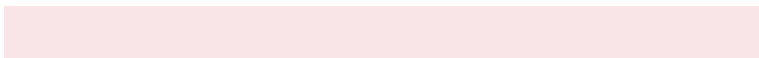
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.9766, 0.3161, 0.3426



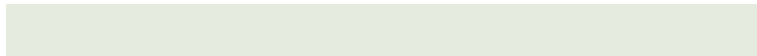
81.9766, 0.2974, 0.3178



81.9766, 0.3247, 0.3267

# Complementary

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



81.9766, 0.3161, 0.3426



75.6677, 0.3092, 0.3154

# 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.



81.9766, 0.3176, 0.3201



81.9766, 0.3161, 0.3426



81.9766, 0.3018, 0.3150

# Square

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



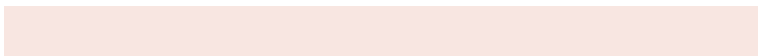
81.9766, 0.3161, 0.3426



81.9766, 0.2971, 0.3237



81.9766, 0.3092, 0.3159



81.9766, 0.3287, 0.3339



# Rectangle

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



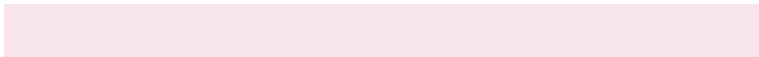
81.9766, 0.3161, 0.3426



81.9766, 0.3029, 0.3337



81.9766, 0.3092, 0.3159



81.9766, 0.3226, 0.3243

# Sweetspot

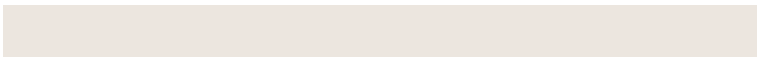
The Sweet Spot groups the original color and five complimentary colors.



81.9801, 0.3161, 0.3426



99.1596, 0.3140, 0.3339



79.7237, 0.3213, 0.3362



21.2331, 0.3139, 0.3336



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.



81.9801, 0.3161, 0.3426



97.1285, 0.3170, 0.3465



81.0336, 0.3118, 0.3423



17.3351, 0.3174, 0.3479



34.9402, 0.3317, 0.5748



2.8003, 0.3424, 0.5663



# Inverse Universe

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



75.6677, 0.3092, 0.3154



87.6032, 0.3081, 0.3115



76.6522, 0.3136, 0.3161



15.5069, 0.3078, 0.3101



5.8976, 0.2100, 0.0930

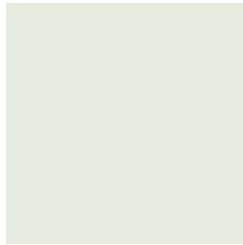


0.5202, 0.2244, 0.1010



# Previews

## White Background



This preview shows how the Yxy color 81.9766, 0.3161, 0.3426 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

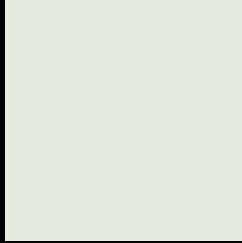
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.9766, 0.3161, 0.3426 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

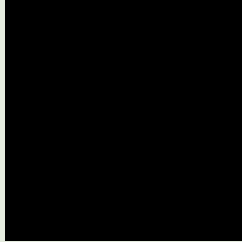
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

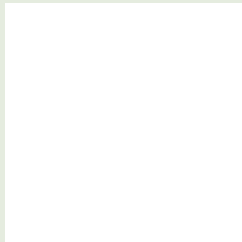
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.9766, 0.3161, 0.3426**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.9766, 0.3161, 0.3426.

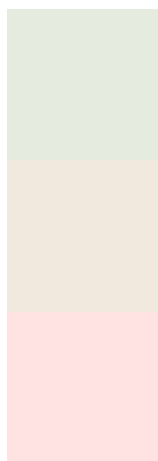


This preview shows how white text looks on a background with the Yxy color 81.9766, 0.3161, 0.3426.

# 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

81.9766, 0.3161, 0.3426

### Protanopia

82.1991, 0.3259, 0.3414

### Deuteranopia

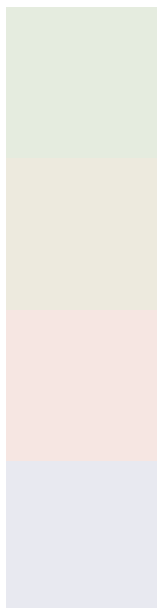
81.7442, 0.3324, 0.3291



## Tritanopia

81.9390, 0.3023, 0.3107

# Trichromacy



## Original Color

81.9766, 0.3161, 0.3426

## Protanomaly

82.1241, 0.3223, 0.3414

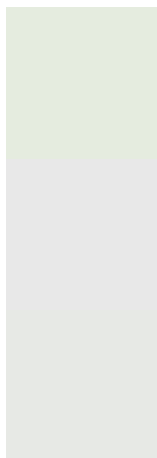
## Deuteranomaly

81.6774, 0.3264, 0.3331

## Tritanomaly

81.7249, 0.3077, 0.3218

# Monochromacy



## Original Color

81.9766, 0.3161, 0.3426

## Achromatopsia

80.6952, 0.3127, 0.3290

## Achromatomaly

80.9239, 0.3139, 0.3332

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.9766, 0.3161, 0.3426 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(229, 236, 223)` looks like.

```
.text, #text, p{  
    color:rgb(229, 236, 223)  
}
```

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(229, 236, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 236, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 81.9766, 0.3161, 0.3426 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(229, 236, 223) }
```

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

```
.border{ border-color:rgb(229, 236, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 236, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(229, 236, 223); -webkit-box-shadow:4px 4px 4px 4px rgb(229, 236, 223); box-shadow:4px 4px 4px 4px rgb(229, 236, 223) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.9766, 0.3161, 0.3426 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 236, 223) }
```

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

```
.background{ background-color: rgb(229,  
236, 223) }
```

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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