

# Converting Colors

$Y_{xy}(167.7766, 0.4321, 0.3594)$

Have a look what the booklet for  
Yxy(167.7766, 0.4321, 0.3594)  
contains.

<b>Yxy(98.5495, 0.3268, 0.3522)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(98.5495, 0.3268, 0.3522)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FFFFE7
RGB	255, 255, 231
RGB Percent	100%, 100%, 91%
CMY	0.0000, 0.0001, 0.0940
CMYK	0.00, 0.00, 0.09, 0.00
HSL	60°, 100%, 95%
HSV	60°, 9%, 100%
XYZ	91.4423, 98.5495, 89.8194
YIQ	252.2640, 7.7040, -7.4640

# Conversions

## Conversions Part 2

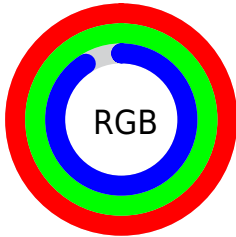
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	231, 255, 231
Decimal	16777191
CIE Lab	99.44, -3.97, 11.46
CIE LCh	99, 12.126, 109.127
Yxy	98.5495, 0.3268, 0.3522
Android (android.graphics.Color)	4294967271 (0xFFFFFE7)
YUV	252.2640, -10.4832, 2.3995
Hunter-Lab	99.2721, -9.3049, 15.8461

# Details

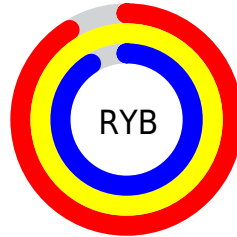
The Yxy color 98.5495, 0.3268, 0.3522 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 81.3849, 0.2980, 0.3047, and the grayscale version is 97.6564, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 55.4891, 0.3299, 0.3574 is the 20% darker color. If you saturate the color by 10%, you get 97.1957, 0.3421, 0.3775, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

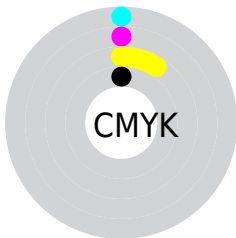
# Distribution



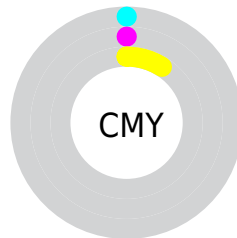
- Red (100%)
- Green (100%)
- Blue (91%)



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



- Cyan (0%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 98.5495, 0.3268, 0.3522 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 98.5495, 0.3268, 0.3522 by changing the saturation by 10% instead.




 98.5495, 0.3268,  
0.3522

 98.5495, 0.3268,  
0.3522


555.4670, 0.3207,  
0.3420

 75.0927, 0.3281,  
0.3544


159.1594, 0.3247,  
0.3487

 55.6889, 0.3297,  
0.3571


197.0813, 0.3239,  
0.3474

 39.9535, 0.3317,  
0.3605


240.5937, 0.3232,  
0.3462

 27.5023, 0.3341,  
0.3647

290.0810, 0.3226,  
0.3451

 17.9508, 0.3373,  
0.3703

345.9276, 0.3220,  
0.3442

 10.9147, 0.3416,  
0.3779

408.5179, 0.3215,

 6.0095, 0.3476,

0.3434

0.3889

478.2362, 0.3211,  
0.3426

■ 2.8509, 0.3567,  
0.4061

■ 1.0544, 0.3921,  
0.4608

■ 98.5495, 0.3268,  
0.3522

■ 98.5495, 0.3268,  
0.3522

■ 97.1957, 0.3421,  
0.3775

100.0000, 0.3127,  
0.3290

■ 96.0499, 0.3573,  
0.4027

■ 95.0953, 0.3720,  
0.4269

■ 94.3213, 0.3855,  
0.4492

■ 93.7166, 0.3972,  
0.4685

■ 93.2682, 0.4066,  
0.4840

■ 92.9615, 0.4134,  
0.4952

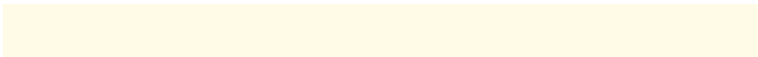
■ 92.7791, 0.4175,  
0.5020

■ 92.6943, 0.4193,  
0.5050

# Harmonies

## Analogous

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



98.5495, 0.3359, 0.3486



98.5495, 0.3268, 0.3522



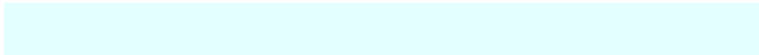
98.5495, 0.3140, 0.3493

# Triad

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



98.5495, 0.3268, 0.3522



98.5495, 0.2873, 0.3173



98.5495, 0.3242, 0.3177

# Complementary

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



98.5495, 0.3268, 0.3522



81.3849, 0.2980, 0.3047

# 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.



98.5495, 0.3110, 0.3098



98.5495, 0.3268, 0.3522



98.5495, 0.2899, 0.3093

# Square

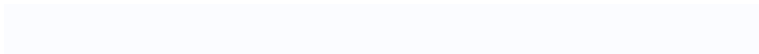
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



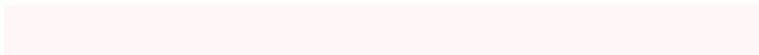
98.5495, 0.3268, 0.3522



98.5495, 0.2914, 0.3288



98.5495, 0.2985, 0.3066



98.5495, 0.3345, 0.3287



# Rectangle

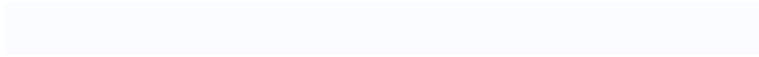
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



98.5495, 0.3268, 0.3522



98.5495, 0.3052, 0.3441



98.5495, 0.2985, 0.3066



98.5495, 0.3200, 0.3146

# Sweetspot

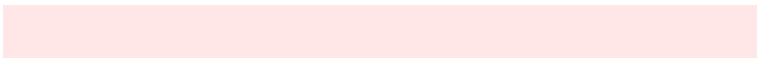
The Sweet Spot groups the original color and five complimentary colors.



98.5424, 0.3268, 0.3522



99.5143, 0.3171, 0.3363



84.2182, 0.3290, 0.3287



21.2731, 0.3183, 0.3383



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.



98.5424, 0.3268, 0.3522



98.3134, 0.3292, 0.3562



96.4187, 0.3194, 0.3527



21.0890, 0.3269, 0.3525



48.4335, 0.4194, 0.5052



4.7163, 0.4194, 0.5052



# Inverse Universe

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



81.3849, 0.2980, 0.3047



78.4620, 0.2953, 0.3003



83.3705, 0.3056, 0.3052



17.3794, 0.2978, 0.3044



3.7749, 0.1500, 0.0600

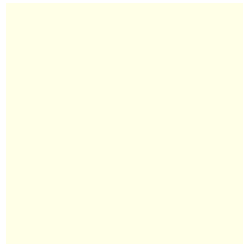


0.3681, 0.1500, 0.0601



# Previews

## White Background



This preview shows how the Yxy color 98.5495, 0.3268, 0.3522 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

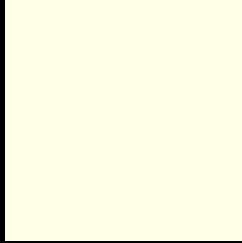
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 98.5495, 0.3268, 0.3522 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

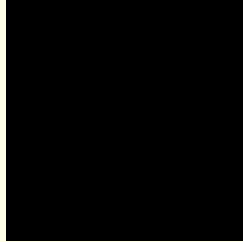
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 98.5495, 0.3268, 0.3522**

## **Background**



This preview shows how black text looks on a background with the Yxy color 98.5495, 0.3268, 0.3522.



This preview shows how white text looks on a background with the Yxy color 98.5495, 0.3268, 0.3522.

# 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

98.5495, 0.3268, 0.3522



### Protanopia

98.4127, 0.3157, 0.3319

### Deuteranopia

98.5388, 0.3145, 0.3300

## **Tritanopia**

98.5414, 0.3122, 0.3271

# Trichromacy



**Original Color**

98.5495, 0.3268, 0.3522



**Protanomaly**

98.6147, 0.3198, 0.3396

**Deuteranomaly**

98.6753, 0.3192, 0.3386

**Tritanomaly**

98.6083, 0.3174, 0.3367

# Monochromacy



**Original Color**

98.5495, 0.3268, 0.3522



**Achromatopsia**

97.3445, 0.3127, 0.3290



**Achromatomaly**

97.6649, 0.3180, 0.3377

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  98.5495, 0.3268, 0.3522 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(255, 255, 231)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 231)  
}
```

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(255, 255, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 98.5495, 0.3268, 0.3522 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(255, 255, 231) }
```

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

```
.border{ border-color:rgb(255, 255, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 231);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 98.5495, 0.3268, 0.3522 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 231) }
```

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

```
.background{ background-color: rgb(255,  
255, 231) }
```

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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