

# Converting Colors

$Y_{xy}(222.7456, 0.4623, 0.3582)$

Have a look what the booklet for  
Yxy(222.7456, 0.4623, 0.3582)  
contains.

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# Color

**Yxy(99.1908, 0.3203, 0.3415)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFFF2
RGB	255, 255, 242
RGB Percent	100%, 100%, 95%
CMY	0.0000, 0.0000, 0.0510
CMYK	0.00, 0.00, 0.05, 0.00
HSL	60°, 100%, 97%
HSV	60°, 5%, 100%
XYZ	93.0331, 99.1908, 98.2323
YIQ	253.5180, 4.1730, -4.0430

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 255, 242
Decimal	16777202
CIE Lab	99.69, -2.20, 6.21
CIE LCh	100, 6.585, 109.556
Yxy	99.1908, 0.3203, 0.3415
Android (android.graphics.Color)	4294967282 (0xFFFFFFFF2)
YUV	253.5180, -5.6784, 1.2997
Hunter-Lab	99.5946, -7.5504, 11.2372

# Details

The Yxy color 99.1908, 0.3203, 0.3415 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 89.5894, 0.3050, 0.3162, and the grayscale version is 98.7268, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 55.9391, 0.3216, 0.3437 is the 20% darker color. If you saturate the color by 10%, you get 97.7607, 0.3355, 0.3666, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

# Distribution



- Red (100%)
- Green (100%)
- Blue (95%)



- Red (95%)
- Yellow (100%)
- Blue (95%)



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




- Cyan (0%)
- Magenta (0%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 99.1908, 0.3203, 0.3415 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 99.1908, 0.3203, 0.3415 by changing the saturation by 10% instead.



 99.1908, 0.3203,  
0.3415

 99.1908, 0.3203,  
0.3415


557.4962, 0.3170,  
0.3360

 75.6278, 0.3210,  
0.3427

160.0419, 0.3192,  
0.3396

 56.1274, 0.3219,  
0.3441


198.0988, 0.3187,  
0.3389

 40.3051, 0.3229,  
0.3459


241.7558, 0.3184,  
0.3383

 27.7765, 0.3243,  
0.3482

291.3973, 0.3180,  
0.3377

 18.1572, 0.3260,  
0.3511

347.4077, 0.3177,  
0.3372

 11.0629, 0.3284,  
0.3552

410.1714, 0.3175,

 6.1092, 0.3317,

0.3368

0.3610

480.0727, 0.3172,  
0.3364

■ 2.9116, 0.3369,  
0.3701

■ 1.0857, 0.3481,  
0.3890

■ 99.1908, 0.3203,  
0.3415

■ 99.1908, 0.3203,  
0.3415

■ 97.7607, 0.3355,  
0.3666

100.0000, 0.3127,  
0.3290

■ 96.5371, 0.3508,  
0.3920


■ 95.5091, 0.3658,  
0.4167


■ 94.6663, 0.3798,  
0.4400

 93.9978, 0.3924,  
0.4607

 93.4914, 0.4028,  
0.4779

 93.1332, 0.4107,  
0.4910

 92.9073, 0.4160,  
0.4997

 92.7937, 0.4187,  
0.5041

# Harmonies

## Analogous

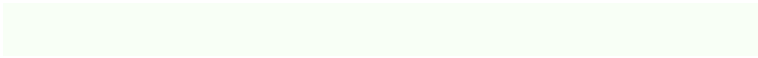
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



99.1908, 0.3252, 0.3397



99.1908, 0.3203, 0.3415



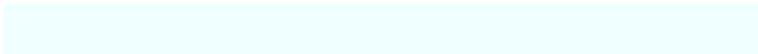
99.1908, 0.3134, 0.3399

# Triad

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



99.1908, 0.3203, 0.3415



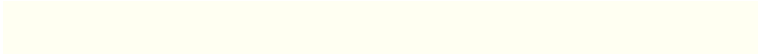
99.1908, 0.2989, 0.3227



99.1908, 0.3191, 0.3229

# Complementary

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



99.1908, 0.3203, 0.3415



89.5894, 0.3050, 0.3162

# 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.



99.1908, 0.3119, 0.3185



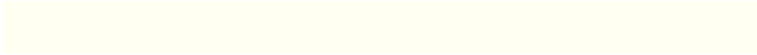
99.1908, 0.3203, 0.3415



99.1908, 0.3003, 0.3183

# Square

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



99.1908, 0.3203, 0.3415



99.1908, 0.3011, 0.3289



99.1908, 0.3051, 0.3168



99.1908, 0.3245, 0.3290

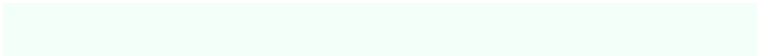


# Rectangle

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



99.1908, 0.3203, 0.3415



99.1908, 0.3086, 0.3370



99.1908, 0.3051, 0.3168



99.1908, 0.3168, 0.3212

# Sweetspot

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



99.1891, 0.3203, 0.3415



99.6756, 0.3157, 0.3339



91.1773, 0.3211, 0.3288



21.3381, 0.3155, 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.



99.1891, 0.3203, 0.3415



99.0526, 0.3216, 0.3437



98.0161, 0.3163, 0.3416



21.1802, 0.3226, 0.3453



48.4720, 0.4193, 0.5052



4.7196, 0.4193, 0.5052



# Inverse Universe

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



89.5894, 0.3050, 0.3162



87.8373, 0.3035, 0.3138



90.7211, 0.3090, 0.3163



18.5302, 0.3025, 0.3121



3.7730, 0.1500, 0.0600

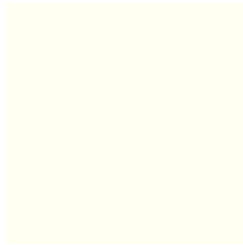


0.3675, 0.1500, 0.0600



# Previews

## White Background



This preview shows how the Yxy color 99.1908, 0.3203, 0.3415 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

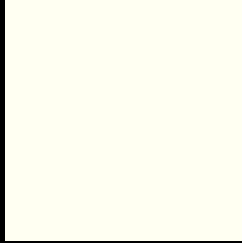
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 99.1908, 0.3203, 0.3415 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

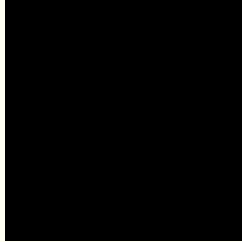
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 99.1908, 0.3203, 0.3415**

## **Background**



This preview shows how black text looks on a background with the Yxy color 99.1908, 0.3203, 0.3415.

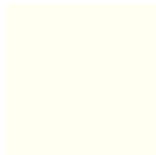


This preview shows how white text looks on a background with the Yxy color 99.1908, 0.3203, 0.3415.

# 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

99.1908, 0.3203, 0.3415

### Protanopia

99.2355, 0.3139, 0.3300

### Deuteranopia

99.2994, 0.3133, 0.3290

# Tritanopia

99.1745, 0.3121, 0.3280

# Trichromacy



**Original Color**

99.1908, 0.3203, 0.3415

**Protanomaly**

98.9832, 0.3162, 0.3338

**Deuteranomaly**

99.0457, 0.3157, 0.3328

**Tritanomaly**

98.8566, 0.3150, 0.3328

# Monochromacy



**Original Color**

99.1908, 0.3203, 0.3415

**Achromatopsia**

99.1102, 0.3127, 0.3290

**Achromatomaly**

98.8566, 0.3150, 0.3328

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 99.1908, 0.3203, 0.3415 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, 242)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 242)  
}
```

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, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 99.1908, 0.3203, 0.3415 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, 242) }
```

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

```
.border{ border-color:rgb(255, 255, 242) }
```

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, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 242);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 99.1908, 0.3203, 0.3415 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, 242) }
```

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

```
.background{ background-color: rgb(255,  
255, 242) }
```

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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