

# Converting Colors

$Y_{xy}(159.8571, 0.3954, 0.3714)$

Have a look what the booklet for  
Yxy(159.8571, 0.3954, 0.3714)  
contains.

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# Color

**Yxy(98.7782, 0.3244, 0.3483)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFEB
RGB	255, 255, 235
RGB Percent	100%, 100%, 92%
CMY	0.0000, 0.0000, 0.0784
CMYK	0.00, 0.00, 0.08, 0.00
HSL	60°, 100%, 96%
HSV	60°, 8%, 100%
XYZ	92.0001, 98.7782, 92.8226
YIQ	252.7200, 6.4200, -6.2200

# Conversions

## Conversions Part 2

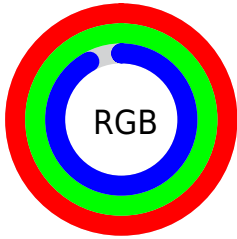
Format	Color
R <sub>Y</sub> B	235, 255, 235
Decimal	16777195
CIE Lab	99.53, -3.36, 9.54
CIE LCh	100, 10.116, 109.376
Yxy	98.7782, 0.3244, 0.3483
Android (android.graphics.Color)	4294967275 (0xFFFFFFFFEB)
YUV	252.7200, -8.7360, 1.9996
Hunter-Lab	99.3872, -8.6949, 14.1972

# Details

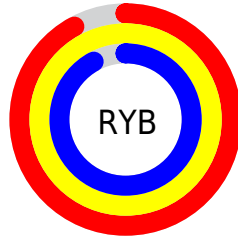
The Yxy color 98.7782, 0.3244, 0.3483 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 84.3082, 0.3006, 0.3089, and the grayscale version is 98.0498, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 55.6486, 0.3268, 0.3523 is the 20% darker color. If you saturate the color by 10%, you get 97.4089, 0.3397, 0.3735, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

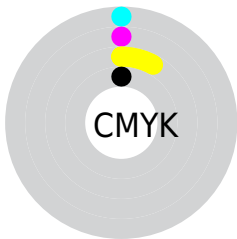
# Distribution



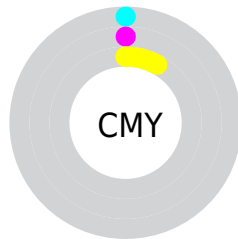
- Red (100%)
- Green (100%)
- Blue (92%)



- Red (92%)
- Yellow (100%)
- Blue (92%)



- Cyan (0%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 98.7782, 0.3244, 0.3483 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 98.7782, 0.3244, 0.3483 by changing the saturation by 10% instead.



 98.7782, 0.3244,  
0.3483

 98.7782, 0.3244,  
0.3483


556.1911, 0.3193,  
0.3398

 75.2835, 0.3255,  
0.3502

159.4742, 0.3227,  
0.3454

 55.8452, 0.3268,  
0.3524


197.4443, 0.3220,  
0.3443

 40.0788, 0.3284,  
0.3552


241.0083, 0.3214,  
0.3433

 27.6000, 0.3305,  
0.3587

290.5506, 0.3209,  
0.3424

 18.0244, 0.3331,  
0.3633

346.4557, 0.3204,  
0.3417

 10.9675, 0.3367,  
0.3696

409.1078, 0.3200,

 6.0450, 0.3418,

0.3410

0.3787

478.8915, 0.3196,  
0.3404

■ 2.8724, 0.3495,  
0.3930

■ 1.0655, 0.3737,  
0.4315

■ 98.7782, 0.3244,  
0.3483

■ 98.7782, 0.3244,  
0.3483

■ 97.4089, 0.3397,  
0.3735

100.0000, 0.3127,  
0.3290

■ 96.2412, 0.3549,  
0.3988

■ 95.2663, 0.3697,  
0.4233

■ 94.4738, 0.3834,  
0.4459

■ 93.8524, 0.3954,  
0.4658

■ 93.3894, 0.4052,  
0.4819

■ 93.0706, 0.4124,  
0.4938

■ 92.8790, 0.4169,  
0.5013

■ 92.7921, 0.4190,  
0.5048

# Harmonies

## Analogous

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



98.7782, 0.3320, 0.3454



98.7782, 0.3244, 0.3483



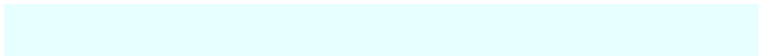
98.7782, 0.3137, 0.3458

# Triad

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



98.7782, 0.3244, 0.3483



98.7782, 0.2915, 0.3192



98.7782, 0.3224, 0.3197

# Complementary

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



98.7782, 0.3244, 0.3483



84.3082, 0.3006, 0.3089

# Split Complementary

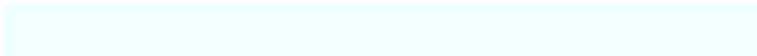
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



98.7782, 0.3114, 0.3129



98.7782, 0.3244, 0.3483



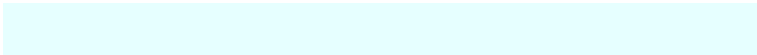
98.7782, 0.2937, 0.3125

# Square

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



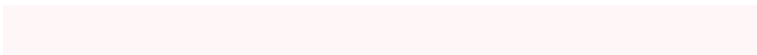
98.7782, 0.3244, 0.3483



98.7782, 0.2949, 0.3288



98.7782, 0.3009, 0.3103



98.7782, 0.3309, 0.3289



# Rectangle

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



98.7782, 0.3244, 0.3483



98.7782, 0.3064, 0.3414



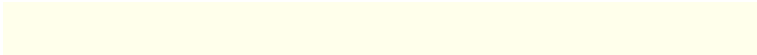
98.7782, 0.3009, 0.3103



98.7782, 0.3189, 0.3171

# Sweetspot

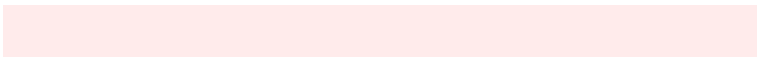
The Sweet Spot groups the original color and five complimentary colors.



98.7789, 0.3244, 0.3483



99.6759, 0.3157, 0.3339



86.6828, 0.3263, 0.3290



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.



98.7789, 0.3244, 0.3483



98.6090, 0.3261, 0.3512



96.9325, 0.3180, 0.3487



21.0908, 0.3269, 0.3525



48.4795, 0.4193, 0.5053



4.7203, 0.4193, 0.5053



# Inverse Universe

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



84.3082, 0.3006, 0.3089



82.1256, 0.2987, 0.3058



86.0575, 0.3071, 0.3093



17.3778, 0.2978, 0.3044



3.7726, 0.1500, 0.0600



0.3673, 0.1500, 0.0600



# Previews

## White Background



This preview shows how the Yxy color 98.7782, 0.3244, 0.3483 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

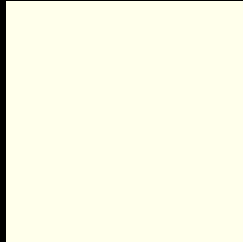
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 98.7782, 0.3244, 0.3483 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

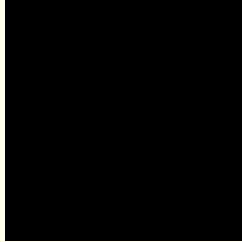
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 98.7782, 0.3244, 0.3483**

## **Background**



This preview shows how black text looks on a background with the Yxy color 98.7782, 0.3244, 0.3483.



This preview shows how white text looks on a background with the Yxy color 98.7782, 0.3244, 0.3483.

# 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

98.7782, 0.3244, 0.3483

### Protanopia

98.4756, 0.3151, 0.3309

### Deuteranopia

98.6024, 0.3140, 0.3290

## **Tritanopia**

98.5414, 0.3122, 0.3271

# Trichromacy



**Original Color**

98.7782, 0.3244, 0.3483

**Protanomaly**

98.7362, 0.3186, 0.3376

**Deuteranomaly**

98.7974, 0.3180, 0.3367

**Tritanomaly**

98.7318, 0.3162, 0.3348

# Monochromacy



**Original Color**

98.7782, 0.3244, 0.3483

**Achromatopsia**

98.2251, 0.3127, 0.3290

**Achromatomaly**

98.6083, 0.3174, 0.3367

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 98.7782, 0.3244, 0.3483 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, 235)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 235)  
}
```

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, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 98.7782, 0.3244, 0.3483 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, 235) }
```

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

```
.border{ border-color:rgb(255, 255, 235) }
```

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, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 235);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 98.7782, 0.3244, 0.3483 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, 235) }
```

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

```
.background{ background-color: rgb(255,  
255, 235) }
```

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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