

# Converting Colors

$Y_{xy}(127.7345, 0.4644, 0.3483)$

Have a look what the booklet for  
Yxy(127.7345, 0.4644, 0.3483)  
contains.

<b>Yxy(80.7780, 0.3528, 0.3605)</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(80.7780, 0.3528, 0.3605)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE4C5
RGB	255, 228, 197
RGB Percent	100%, 89%, 77%
CMY	0.0001, 0.1058, 0.2275
CMYK	0.00, 0.11, 0.23, 0.00
HSL	32°, 100%, 89%
HSV	32°, 23%, 100%
XYZ	79.0526, 80.7780, 64.2415
YIQ	232.5390, 26.0430, -3.9170

# Conversions

## Conversions Part 2

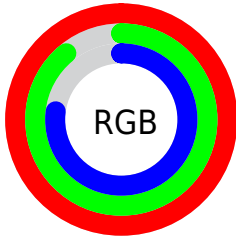
Format	Color
R <sub>Y</sub> B	248, 255, 197
Decimal	16770245
CIE Lab	92.03, 4.56, 18.52
CIE LCh	92, 19.071, 76.179
Yxy	80.7780, 0.3528, 0.3605
Android (android.graphics.Color)	4294960325 (0xFFFFE4C5)
YUV	232.5390, -17.5207, 19.6983
Hunter-Lab	89.8766, -0.2810, 20.5346

# Details

The Yxy color **80.7780, 0.3528, 0.3605** is a light color, and the websafe version is hex **FFFFCC**. A complement of this color would be **72.3692, 0.2763, 0.2953**, and the grayscale version is **81.2399, 0.3127, 0.3290**.

A 20% lighter version of the original color is **99.9358, 0.3133, 0.3300**, and **43.8761, 0.3622, 0.3679** is the 20% darker color. If you saturate the color by 10%, you get **73.4094, 0.3741, 0.3751**, and if you desaturate by 10%, it is **88.7987, 0.3338, 0.3462**.

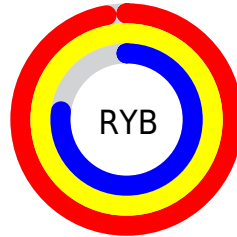
# Distribution



Red (100%)

Green (89%)

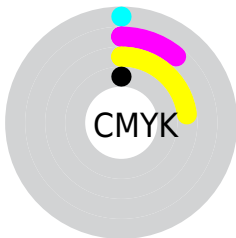
Blue (77%)



Red (97%)

Yellow (100%)

Blue (77%)

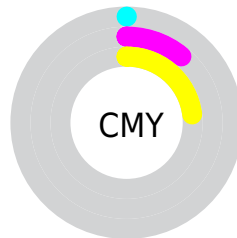


Cyan (0%)

Magenta (11%)

Yellow (23%)

Black (0%)



Cyan (0%)

Magenta (11%)

Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.7780, 0.3528, 0.3605 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 80.7780, 0.3528, 0.3605 by changing the saturation by 10% instead.




 80.7780, 0.3528,  
0.3605

 80.7780, 0.3528,  
0.3605


497.5509, 0.3345,  
0.3464

 60.3588, 0.3569,  
0.3636


134.4590, 0.3465,  
0.3557

 43.7079, 0.3619,  
0.3674


168.4896, 0.3441,  
0.3538

 30.4409, 0.3682,  
0.3720


207.8261, 0.3419,  
0.3522

 20.1735, 0.3763,  
0.3780

252.8528, 0.3401,  
0.3507

 12.5212, 0.3870,  
0.3857

303.9543, 0.3385,  
0.3495

 7.0997, 0.4020,  
0.3962

361.5149, 0.3370,

 3.5245, 0.4239,

0.3483

0.4108

425.9190, 0.3357,  
0.3473

■ 1.4113, 0.4889,  
0.4603

■ 0.2250, 0.5909,  
0.4091

■ 80.7780, 0.3528,  
0.3605

■ 80.7780, 0.3528,  
0.3605

■ 73.4094, 0.3741,  
0.3751

■ 88.7987, 0.3338,  
0.3462

■ 66.6633, 0.3976,  
0.3893

■ 97.4785, 0.3170,  
0.3326

■ 60.5231, 0.4229,  
0.4025

99.9947, 0.3127,  
0.3290

■ 54.9677, 0.4492,  
0.4133

■ 49.9737, 0.4752,  
0.4206

■ 45.5156, 0.4994,  
0.4231

■ 41.5641, 0.5202,  
0.4201

■ 38.9868, 0.5331,  
0.4149

# Harmonies

## Analogous

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



80.7780, 0.3566, 0.3450



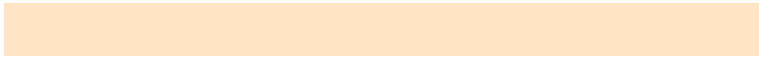
80.7780, 0.3528, 0.3605



80.7780, 0.3380, 0.3681

# Triad

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



80.7780, 0.3528, 0.3605



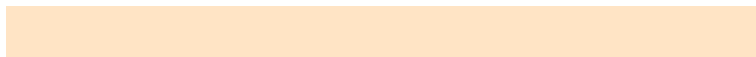
80.7780, 0.2783, 0.3303



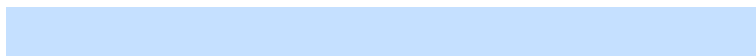
80.7780, 0.3074, 0.2963

# Complementary

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



80.7780, 0.3528, 0.3605



72.3692, 0.2763, 0.2953

# 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.



80.7780, 0.2870, 0.2919



80.7780, 0.3528, 0.3605



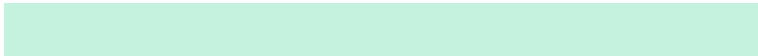
80.7780, 0.2707, 0.3105

# Square

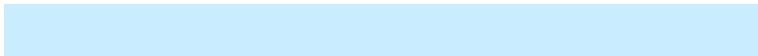
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.7780, 0.3528, 0.3605



80.7780, 0.2950, 0.3506



80.7780, 0.2739, 0.2968



80.7780, 0.3299, 0.3087



# Rectangle

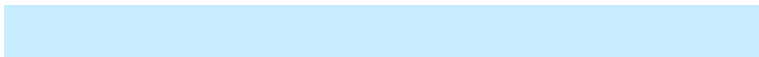
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.7780, 0.3528, 0.3605



80.7780, 0.3243, 0.3671



80.7780, 0.2739, 0.2968



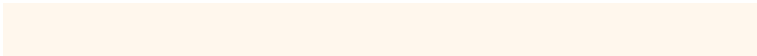
80.7780, 0.3001, 0.2939

# Sweetspot

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



80.7817, 0.3528, 0.3605



93.7224, 0.3238, 0.3383



66.5672, 0.3383, 0.3016



19.9479, 0.3249, 0.3391



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

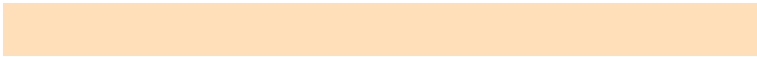


# Same Dimension

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



80.7817, 0.3528, 0.3605



77.5828, 0.3616, 0.3667



96.4231, 0.3459, 0.3862



19.5969, 0.3281, 0.3417



20.6785, 0.5308, 0.4168



2.2322, 0.5146, 0.4296



# Inverse Universe

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



72.3692, 0.2763, 0.2953



67.9025, 0.2692, 0.2881



59.2778, 0.2752, 0.2651



18.7697, 0.2979, 0.3159



10.9024, 0.1739, 0.1458



1.2776, 0.1798, 0.1673



# Previews

## White Background



This preview shows how the Yxy color 80.7780, 0.3528, 0.3605 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 80.7780, 0.3528, 0.3605 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

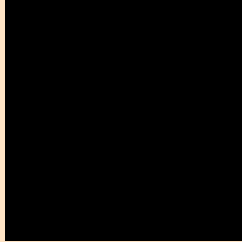
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.7780, 0.3528, 0.3605**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.7780, 0.3528, 0.3605.

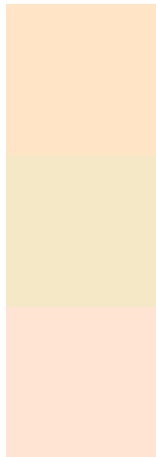


This preview shows how white text looks on a background with the Yxy color 80.7780, 0.3528, 0.3605.

# 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

80.7780, 0.3528, 0.3605

### Protanopia

81.0698, 0.3426, 0.3632

### Deuteranopia

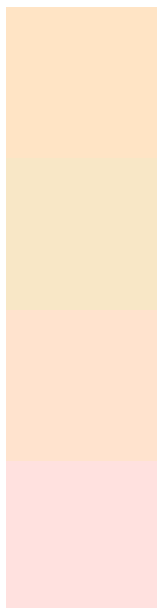
80.9013, 0.3433, 0.3452



## Tritanopia

80.7444, 0.3253, 0.3152

# Trichromacy



## Original Color

80.7780, 0.3528, 0.3605

## Protanomaly

81.1855, 0.3464, 0.3630

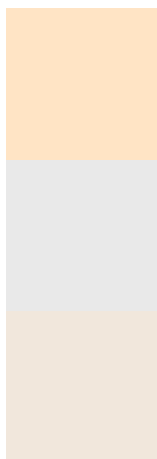
## Deuteranomaly

80.6544, 0.3468, 0.3503

## Tritanomaly

80.4381, 0.3354, 0.3311

# Monochromacy



## Original Color

80.7780, 0.3528, 0.3605

## Achromatopsia

81.4847, 0.3127, 0.3290

## Achromatomaly

81.0199, 0.3267, 0.3404

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.7780, 0.3528, 0.3605 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, 228, 197)` looks like.

```
.text, #text, p{  
    color:rgb(255, 228, 197)  
}
```

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, 228, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 228, 197) }
```

## Border

The CSS property to change the border of an element to Yxy 80.7780, 0.3528, 0.3605 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, 228, 197) }
```

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

```
.border{ border-color:rgb(255, 228, 197) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 228, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 228, 197); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 228, 197); box-shadow:4px 4px 4px 4px rgb(255, 228, 197) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.7780, 0.3528, 0.3605 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 228, 197) }
```

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

```
.background{ background-color: rgb(255,  
228, 197) }
```

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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