

# Converting Colors

$Yxy(62.7557, 0.3000, 0.4517)$

Have a look what the booklet for  
Yxy(62.7557, 0.3000, 0.4517)  
contains.

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# Color

**Yxy(62.9697, 0.2999, 0.4528)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FE68B
RGB	127, 230, 139
RGB Percent	50%, 90%, 55%
CMY	0.5021, 0.0980, 0.4548
CMYK	0.45, 0.00, 0.40, 0.10
HSL	127°, 67%, 70%
HSV	127°, 45%, 90%
XYZ	41.7063, 62.9697, 34.3914
YIQ	188.8290, -32.1770, -50.1370

# Conversions

## Conversions Part 2

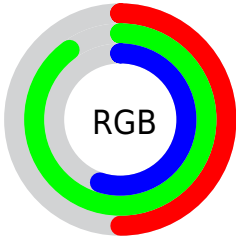
<b>Format</b>	<b>Color</b>
<b>RYB</b>	127, 219, 230
Decimal	8382091
CIELab	83.43, -48.61, 35.22
CIElCh	83, 60.031, 144.077
Yxy	62.9697, 0.2999, 0.4528
Android (android.graphics.Color)	4286572171 (0xFF7FE68B)
YUV	188.8290, -24.5657, -54.2240
Hunter-Lab	79.3534, -45.0531, 29.8514

# Details

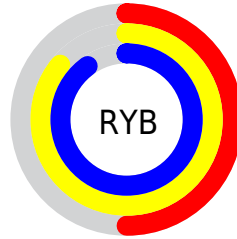
The Yxy color **62.9697, 0.2999, 0.4528** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **37.0520, 0.3292, 0.2307**, and the grayscale version is **50.9400, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.5606, 0.3041, 0.3994**, and **32.2419, 0.2931, 0.4883** is the 20% darker color. If you saturate the color by 10%, you get **60.8643, 0.2978, 0.4856**, and if you desaturate by 10%, it is **65.5937, 0.3025, 0.4208**.

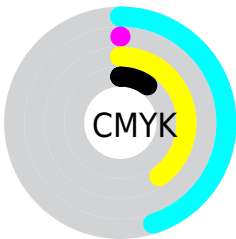
# Distribution



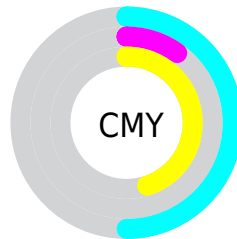
- Red (50%)
- Green (90%)
- Blue (55%)



- Red (50%)
- Yellow (86%)
- Blue (90%)



- Cyan (45%)
- Magenta (0%)
- Yellow (40%)
- Black (10%)




- Cyan (50%)
- Magenta (10%)
- Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.9697, 0.2999, 0.4528 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 62.9697, 0.2999, 0.4528 by changing the saturation by 10% instead.




 62.9697, 0.2999,  
0.4528

 62.9697, 0.2999,  
0.4528


435.4595, 0.3084,  
0.3900

 45.8167, 0.2972,  
0.4685


 109.1258, 0.3034,  
0.4299

 32.1012, 0.2933,  
0.4886

 138.8977, 0.3046,  
0.4213

 21.4388, 0.2877,  
0.5151


 173.6446, 0.3056,  
0.4141

 13.4451, 0.2788,  
0.5515

213.7511, 0.3064,  
0.4079

 7.7358, 0.2637,  
0.6035

259.6014, 0.3070,  
0.4025

 3.9263, 0.2405,  
0.6954

311.5800, 0.3075,

 1.6324, 0.1216,

0.3978

0.8784

370.0712, 0.3080,  
0.3937

0.3793, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

62.9697, 0.2999,  
0.4528

62.9697, 0.2999,  
0.4528

60.8643, 0.2978,  
0.4856

65.5937, 0.3025,  
0.4208

59.2356, 0.2963,  
0.5176


68.7591, 0.3054,  
0.3909


58.0483, 0.2957,  
0.5464

72.4971, 0.3084,  
0.3637


57.2585, 0.2961,  
0.5699

76.8339, 0.3113,  
0.3395

 56.8130, 0.2973,  
0.5866

 81.7945, 0.3142,  
0.3184

 56.6773, 0.2979,  
0.5926

 85.0785, 0.3138,  
0.3049

# Harmonies

## Analogous

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



62.9697, 0.3724, 0.4674



62.9697, 0.2999, 0.4528



62.9697, 0.2348, 0.3874

# Triad

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



62.9697, 0.2999, 0.4528



62.9697, 0.1987, 0.2184



62.9697, 0.4472, 0.3279

# Complementary

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



62.9697, 0.2999, 0.4528



37.0520, 0.3292, 0.2307

# 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.



62.9697, 0.3886, 0.2765



62.9697, 0.2999, 0.4528



62.9697, 0.2428, 0.2162

# Square

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



62.9697, 0.2999, 0.4528



62.9697, 0.1820, 0.2477



62.9697, 0.3110, 0.2370



62.9697, 0.4624, 0.3839



# Rectangle

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



62.9697, 0.2999, 0.4528



62.9697, 0.2041, 0.3328



62.9697, 0.3110, 0.2370



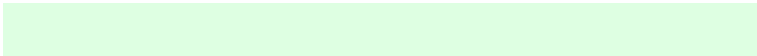
62.9697, 0.4317, 0.3099

# Sweetspot

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



62.9723, 0.2999, 0.4528



92.5022, 0.3089, 0.3593



73.0331, 0.3699, 0.4426



19.5549, 0.3082, 0.3650



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.



62.9723, 0.2999, 0.4528



77.0279, 0.2978, 0.4840



64.8474, 0.2724, 0.3807



16.1165, 0.3100, 0.3504



32.0939, 0.2975, 0.5911



2.3807, 0.2921, 0.5717



# Inverse Universe

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



37.0520, 0.3292, 0.2307



40.2773, 0.3335, 0.2126



34.7632, 0.3851, 0.2839



14.5846, 0.3156, 0.3085



11.9791, 0.3527, 0.1717



0.8935, 0.3475, 0.1688



# Previews

## White Background



This preview shows how the Yxy color 62.9697, 0.2999, 0.4528 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 62.9697, 0.2999, 0.4528 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

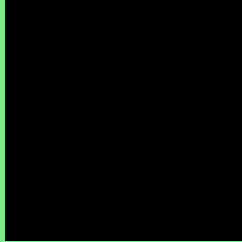
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 62.9697, 0.2999, 0.4528**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.9697, 0.2999, 0.4528.

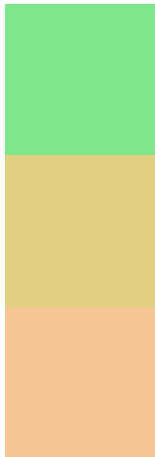


This preview shows how white text looks on a background with the Yxy color 62.9697, 0.2999, 0.4528.

# 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

62.9697, 0.2999, 0.4528

### Protanopia

62.2449, 0.3833, 0.4157

### Deuteranopia

62.0563, 0.3930, 0.3848



## Tritanopia

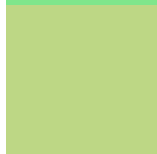
62.4948, 0.2575, 0.3070

# Trichromacy



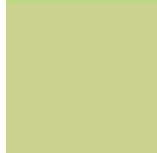
## Original Color

62.9697, 0.2999, 0.4528



## Protanomaly

61.1131, 0.3487, 0.4303



## Deuteranomaly

60.7729, 0.3548, 0.4097



## Tritanomaly

62.0350, 0.2725, 0.3560

# Monochromacy



## Original Color

62.9697, 0.2999, 0.4528



## Achromatopsia

50.8881, 0.3127, 0.3290



## Achromatomaly

54.2330, 0.3069, 0.3726

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.9697, 0.2999, 0.4528 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(127, 230, 139)` looks like.

```
.text, #text, p{  
    color:rgb(127, 230, 139)  
}
```

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(127, 230, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 230, 139) }
```

## Border

The CSS property to change the border of an element to Yxy 62.9697, 0.2999, 0.4528 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(127, 230, 139) }
```

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

```
.border{ border-color:rgb(127, 230, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 230, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(127, 230, 139); -webkit-box-shadow:4px 4px 4px 4px rgb(127, 230, 139); box-shadow:4px 4px 4px 4px rgb(127, 230, 139) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.9697, 0.2999, 0.4528 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 230, 139) }
```

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

```
.background{ background-color: rgb(127,  
230, 139) }
```

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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