

# Converting Colors

$Y_{xy}(77.9691, 0.3152, 0.5020)$

Have a look what the booklet for  
Yxy(77.9691, 0.3152, 0.5020)  
contains.

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**Color**

**Yxy(77.9691, 0.3152, 0.5020)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88FF72
RGB	136, 255, 114
RGB Percent	53%, 100%, 45%
CMY	0.4665, 0.0000, 0.5529
CMYK	0.47, 0.00, 0.55, 0.00
HSL	111°, 100%, 72%
HSV	111°, 55%, 100%
XYZ	48.9559, 77.9691, 28.3919
YIQ	203.3450, -25.6630, -69.0790

# Conversions

## Conversions Part 2

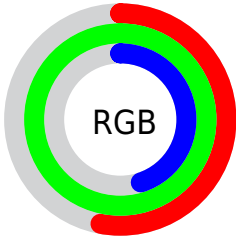
<b>Format</b>	<b>Color</b>
<b>RYB</b>	114, 255, 233
Decimal	8978290
CIELab	90.77, -59.40, 56.31
CIElCh	91, 81.845, 136.532
Yxy	77.9691, 0.3152, 0.5020
Android (android.graphics.Color)	4287168370 (0xFF88FF72)
YUV	203.3450, -44.0471, -59.0616
Hunter-Lab	88.3001, -55.5601, 42.7460

# Details

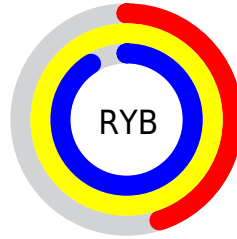
The Yxy color **77.9691, 0.3152, 0.5020** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **36.5768, 0.2990, 0.1896**, and the grayscale version is **60.2521, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.1203, 0.3244, 0.4253**, and **41.7146, 0.3090, 0.5460** is the 20% darker color. If you saturate the color by 10%, you get **75.8454, 0.3137, 0.5340**, and if you desaturate by 10%, it is **80.6229, 0.3159, 0.4676**.

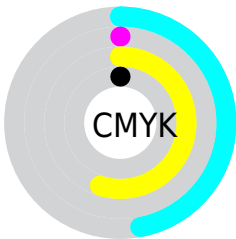
# Distribution



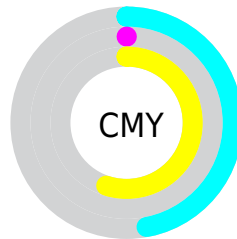
- Red (53%)
- Green (100%)
- Blue (45%)



- Red (45%)
- Yellow (100%)
- Blue (91%)



- Cyan (47%)
- Magenta (0%)
- Yellow (55%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.9691, 0.3152, 0.5020 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 77.9691, 0.3152, 0.5020 by changing the saturation by 10% instead.




 77.9691, 0.3152,  
0.5020


 77.9691, 0.3152,  
0.5020


488.0619, 0.3190,  
0.4173

 58.0486, 0.3129,  
0.5219

 130.5066, 0.3177,  
0.4720

 41.8477, 0.3092,  
0.5465


 163.8923, 0.3183,  
0.4605

 28.9821, 0.3032,  
0.5775


 202.5353, 0.3187,  
0.4507

 19.0673, 0.2932,  
0.6172

246.8198, 0.3189,  
0.4422

 11.7189, 0.2758,  
0.6684

297.1303, 0.3190,  
0.4348

 6.5526, 0.2501,  
0.7499

353.8513, 0.3191,


 3.1839, 0.1876,


0.4283


0.8124


417.3670, 0.3191,  
0.4225


 1.2285, 0.0000,  
1.0000


 0.0848, 0.0000,  
1.0000


 77.9691, 0.3152,  
0.5020


 77.9691, 0.3152,  
0.5020


 75.8454, 0.3137,  
0.5340


 80.6229, 0.3159,  
0.4676


 74.2062, 0.3114,  
0.5612

 83.8290, 0.3160,  
0.4331

 73.0146, 0.3084,  
0.5813

 87.6203, 0.3155,  
0.4001

 72.2236, 0.3052,  
0.5935

 92.0242, 0.3146,  
0.3697

 71.9674, 0.3038,  
0.5970

 97.0665, 0.3134,  
0.3422

99.9995, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.9691, 0.4028, 0.4953



77.9691, 0.3152, 0.5020



77.9691, 0.2316, 0.4306

# Triad

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



77.9691, 0.3152, 0.5020



77.9691, 0.1662, 0.1985



77.9691, 0.4690, 0.3077

# Complementary

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



77.9691, 0.3152, 0.5020



36.5768, 0.2990, 0.1896

# Split Complementary

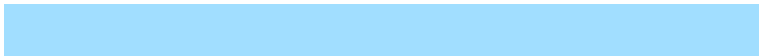
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.9691, 0.3837, 0.2502



77.9691, 0.3152, 0.5020



77.9691, 0.2095, 0.1901

# Square

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



77.9691, 0.3152, 0.5020



77.9691, 0.1544, 0.2403



77.9691, 0.2854, 0.2086



77.9691, 0.5010, 0.3728



# Rectangle

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



77.9691, 0.3152, 0.5020



77.9691, 0.1899, 0.3580



77.9691, 0.2854, 0.2086



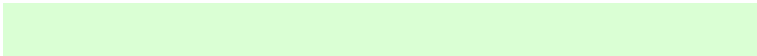
77.9691, 0.4449, 0.2873

# Sweetspot

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



77.9724, 0.3152, 0.5020



91.2265, 0.3148, 0.3747



79.9082, 0.4046, 0.4429



19.3307, 0.3150, 0.3806



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.



77.9724, 0.3152, 0.5020



75.7135, 0.3135, 0.5361



77.6714, 0.2841, 0.4491



20.3043, 0.3139, 0.3534



37.6450, 0.3045, 0.5964



3.7029, 0.3106, 0.5916



# Inverse Universe

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



36.5768, 0.2990, 0.1896



30.5976, 0.2949, 0.1682



37.8520, 0.3656, 0.2360



18.1482, 0.3113, 0.3054



11.3882, 0.2816, 0.1325

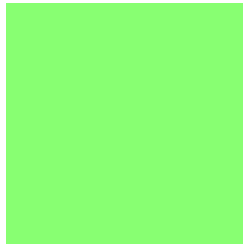


1.1458, 0.2863, 0.1351



# Previews

## White Background



This preview shows how the Yxy color 77.9691, 0.3152, 0.5020 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

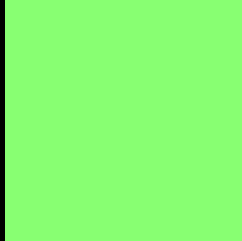
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.9691, 0.3152, 0.5020 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

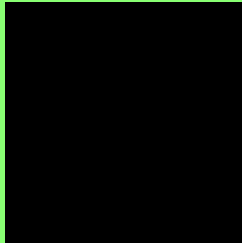
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

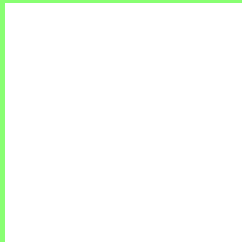
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.9691, 0.3152, 0.5020**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.9691, 0.3152, 0.5020.



This preview shows how white text looks on a background with the Yxy color 77.9691, 0.3152, 0.5020.

# 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

77.9691, 0.3152, 0.5020

### Protanopia

76.6535, 0.4096, 0.4475

### Deuteranopia

76.8800, 0.3648, 0.3700



## Tritanopia

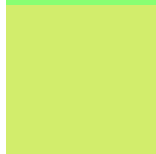
77.3677, 0.2648, 0.3101

# Trichromacy



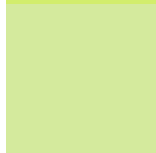
## Original Color

77.9691, 0.3152, 0.5020



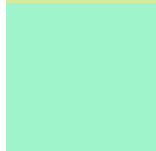
## Protanomaly

75.3527, 0.3711, 0.4694



## Deuteranomaly

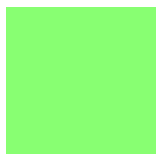
75.2770, 0.3461, 0.4158



## Tritanomaly

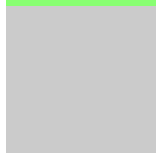
76.5346, 0.2843, 0.3768

# Monochromacy



## Original Color

77.9691, 0.3152, 0.5020



## Achromatopsia

59.7202, 0.3127, 0.3290



## Achromatomaly

64.7665, 0.3153, 0.3923

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.9691, 0.3152, 0.5020 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(136, 255, 114)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 114)  
}
```

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(136, 255, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 114) }
```

## Border

The CSS property to change the border of an element to Yxy 77.9691, 0.3152, 0.5020 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(136, 255, 114) }
```

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

```
.border{ border-color:rgb(136, 255, 114) }
```

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

Here you see how a box with a 4 pixel rgb(136, 255, 114) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 114);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
114) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.9691, 0.3152, 0.5020 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 114) }
```

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

```
.background{ background-color: rgb(136,  
255, 114) }
```

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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