

# Converting Colors

$Y_{xy}(72.8110, 0.2786, 0.5209)$

Have a look what the booklet for  
Yxy(72.8110, 0.2786, 0.5209)  
contains.

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# Color

**Yxy(72.7994, 0.2787, 0.5213)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0AFF72
RGB	10, 255, 114
RGB Percent	4%, 100%, 45%
CMY	0.9622, 0.0000, 0.5528
CMYK	0.96, 0.00, 0.55, 0.00
HSL	146°, 100%, 52%
HSV	146°, 96%, 100%
XYZ	38.9204, 72.7994, 27.9299
YIQ	165.6710, -100.7590, -95.7910

# Conversions

## Conversions Part 2

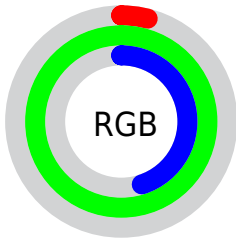
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 182, 255
Decimal	720754
CIELab	88.35, -78.50, 52.84
CIELCh	88, 94.628, 146.055
Yxy	72.7994, 0.2787, 0.5213
Android (android.graphics.Color)	4278910834 (0xFF0AFF72)
YUV	165.6710, -25.4738, -136.5235
Hunter-Lab	85.3226, -67.8907, 40.3175

# Details

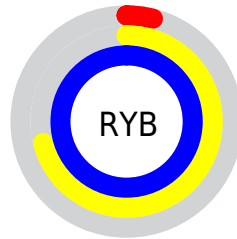
The Yxy color **72.7994, 0.2787, 0.5213** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **23.6901, 0.4607, 0.2327**, and the grayscale version is **38.0731, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2361, 0.2821, 0.4380**, and **39.8061, 0.2886, 0.5588** is the 20% darker color. If you saturate the color by 10%, you get **72.6135, 0.2801, 0.5284**, and if you desaturate by 10%, it is **73.4562, 0.2756, 0.5012**.

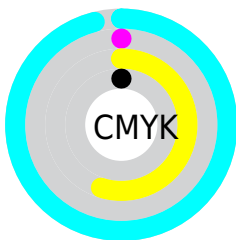
# Distribution



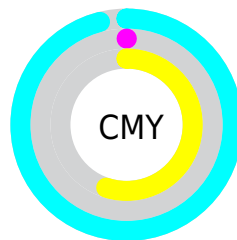
- Red (4%)
- Green (100%)
- Blue (45%)



- Red (4%)
- Yellow (71%)
- Blue (100%)



- Cyan (96%)
- Magenta (0%)
- Yellow (55%)
- Black (0%)




- Cyan (96%)
- Magenta (0%)
- Yellow (55%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.7994, 0.2787, 0.5213 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 72.7994, 0.2787, 0.5213 by changing the saturation by 10% instead.





 72.7994, 0.2787,  
0.5213

 72.7994, 0.2787,  
0.5213


470.3193, 0.3000,  
0.4240

 53.8120, 0.2723,  
0.5451


 123.1924, 0.2873,  
0.4862


 38.4513, 0.2634,  
0.5750


 155.3667, 0.2903,  
0.4729


 26.3332, 0.2510,  
0.6134


 192.7055, 0.2928,  
0.4616

 17.0731, 0.2325,  
0.6637

 235.5930, 0.2947,  
0.4519

 10.2866, 0.2040,  
0.7301

 284.4138, 0.2964,  
0.4436

 5.5894, 0.1629,  
0.8371


339.5522, 0.2978,

 2.5971, 0.0056,

0.4362


0.9944


401.3925, 0.2990,  
0.4298


 0.9252, 0.0000,  
1.0000

 0.0000, 0.0000,  
0.0000

 72.7994, 0.2787,  
0.5213

 72.7994, 0.2787,  
0.5213


 72.6135, 0.2801,  
0.5284

 73.4562, 0.2756,  
0.5012


 74.4937, 0.2744,  
0.4794


 75.9727, 0.2752,  
0.4567


 77.9435, 0.2778,  
0.4340

 80.4493, 0.2821,  
0.4118

 83.5286, 0.2875,  
0.3909

 87.2159, 0.2939,  
0.3715

 91.5431, 0.3009,  
0.3538

 96.5398, 0.3081,  
0.3380

# Harmonies

## Analogous

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



72.7994, 0.3799, 0.5346



72.7994, 0.2787, 0.5213



72.7994, 0.1919, 0.4092

# Triad

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



72.7994, 0.2787, 0.5213



72.7994, 0.1577, 0.1733



72.7994, 0.5166, 0.3233

# Complementary

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



72.7994, 0.2787, 0.5213



23.6901, 0.4607, 0.2327

# 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.



72.7994, 0.4322, 0.2568



72.7994, 0.2787, 0.5213



72.7994, 0.2168, 0.1750

# Square

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



72.7994, 0.2787, 0.5213



72.7994, 0.1339, 0.2049



72.7994, 0.3144, 0.2042



72.7994, 0.5260, 0.3966



# Rectangle

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



72.7994, 0.2787, 0.5213



72.7994, 0.1548, 0.3206



72.7994, 0.3144, 0.2042



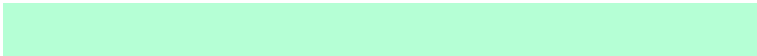
72.7994, 0.4958, 0.3002

# Sweetspot

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



72.7979, 0.2787, 0.5213



86.1294, 0.2921, 0.3767



78.2903, 0.3493, 0.5592



18.0981, 0.2893, 0.3850



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.



72.7979, 0.2787, 0.5213



72.6135, 0.2801, 0.5284



77.5545, 0.2321, 0.3543



20.2965, 0.3057, 0.3430



37.9705, 0.2793, 0.5253



3.7184, 0.2730, 0.5030



# Inverse Universe

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



23.6901, 0.4607, 0.2327



23.3507, 0.4681, 0.2352



21.5632, 0.6267, 0.3250



18.1620, 0.3204, 0.3154



12.2318, 0.4650, 0.2335

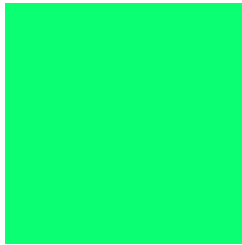


1.2128, 0.4440, 0.2219



# Previews

## White Background



This preview shows how the Yxy color 72.7994, 0.2787, 0.5213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

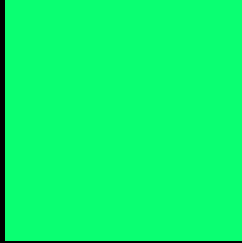
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.7994, 0.2787, 0.5213 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 72.7994, 0.2787, 0.5213**

## Background



This preview shows how black text looks on a background with the Yxy color 72.7994, 0.2787, 0.5213.



This preview shows how white text looks on a background with the Yxy color 72.7994, 0.2787, 0.5213.

# 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

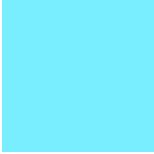
72.7994, 0.2787, 0.5213

### Protanopia

71.2204, 0.4079, 0.4469

### Deuteranopia

70.8502, 0.3848, 0.3838



## **Tritanopia**

72.4340, 0.2409, 0.3088

# Trichromacy



## Original Color

72.7994, 0.2787, 0.5213



## Protanomaly

66.6085, 0.3354, 0.4867



## Deuteranomaly

65.5770, 0.3226, 0.4369



## Tritanomaly

70.8103, 0.2511, 0.3811

# Monochromacy



## Original Color

72.7994, 0.2787, 0.5213



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

45.7460, 0.2829, 0.4075

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.7994, 0.2787, 0.5213 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(10, 255, 114)` looks like.

```
.text, #text, p{  
    color:rgb(10, 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(10, 255, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 255, 114) }
```

## Border

The CSS property to change the border of an element to Yxy 72.7994, 0.2787, 0.5213 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(10, 255, 114) }
```

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

```
.border{ border-color:rgb(10, 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(10, 255, 114) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 255, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 255, 114);  
box-shadow:4px 4px 4px 4px rgb(10, 255,  
114) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.7994, 0.2787, 0.5213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 255, 114) }
```

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

```
.background{ background-color: rgb(10, 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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