

Converting Colors

$Y_{xy}(72.8082, 0.2771, 0.5176)$

Have a look what the booklet for
Yxy(72.8082, 0.2771, 0.5176)
contains.

Yxy(72.8044, 0.2772, 0.5178)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(72.8044, 0.2772, 0.5178)

Conversions

Conversions Part 1

Format	Color
Hex	01FF75
RGB	1, 255, 117
RGB Percent	0%, 100%, 46%
CMY	0.9978, 0.0000, 0.5412
CMYK	1.00, 0.00, 0.54, 0.00
HSL	147°, 100%, 50%
HSV	147°, 100%, 100%
XYZ	38.9752, 72.8044, 28.8237
YIQ	163.3220, -107.0860, -96.7660

Conversions

Conversions Part 2

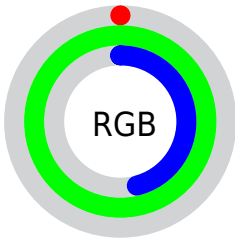
Format	Color
RYB	1, 175, 255
Decimal	130933
CIELab	88.35, -78.34, 51.50
CIELCh	88, 93.750, 146.677
Yxy	72.8044, 0.2772, 0.5178
Android (android.graphics.Color)	4278321013 (0xFF01FF75)
YUV	163.3220, -22.8367, -142.3564
Hunter-Lab	85.3255, -67.7838, 39.6992

Details

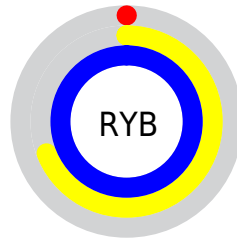
The Yxy color **72.8044, 0.2772, 0.5178** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **23.1232, 0.4814, 0.2426**, and the grayscale version is **36.8661, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2116, 0.2799, 0.4343**, and **39.8500, 0.2871, 0.5537** is the 20% darker color. If you saturate the color by 10%, you get **72.7968, 0.2773, 0.5182**, and if you desaturate by 10%, it is **73.3738, 0.2738, 0.4988**.

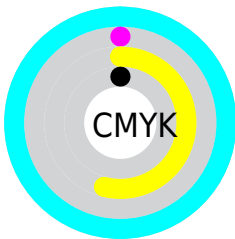
Distribution



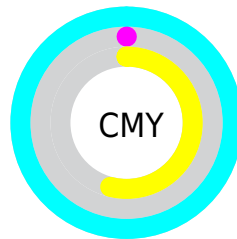
- Red (0%)
- Green (100%)
- Blue (46%)



- Red (0%)
- Yellow (69%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (54%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (54%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 72.8044, 0.2772, 0.5178 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 72.8044, 0.2772, 0.5178 by changing the saturation by 10% instead.


 72.8044, 0.2772,
0.5178


 72.8044, 0.2772,
0.5178


470.3366, 0.2990,
0.4223


 53.8160, 0.2707,
0.5412


 123.1995, 0.2859,
0.4833

 38.4546, 0.2619,
0.5707


 155.3750, 0.2890,
0.4702

 26.3357, 0.2495,
0.6086

 192.7150, 0.2915,
0.4592

 17.0750, 0.2313,
0.6584

 235.6040, 0.2935,
0.4497

 10.2879, 0.2032,
0.7247

 284.4262, 0.2952,
0.4415

 5.5903, 0.1635,
0.8365


339.5661, 0.2967,

 2.5976, 0.0073,

0.4343

0.9927


401.4081, 0.2979,
0.4279


 0.9255, 0.0000,
1.0000


 0.0000, 0.0000,
0.0000


 72.8044, 0.2772,
0.5178

 72.8044, 0.2772,
0.5178

 72.7968, 0.2773,
0.5182

 73.3738, 0.2738,
0.4988

 74.2715, 0.2720,
0.4784

 75.5849, 0.2723,
0.4570

 77.3674, 0.2745,
0.4354

■ 79.6642, 0.2785,
0.4143

■ 82.5148, 0.2838,
0.3941

■ 85.9547, 0.2903,
0.3753

■ 90.0164, 0.2975,
0.3581

■ 94.7301, 0.3051,
0.3426

Harmonies

Analogous

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



72.8044, 0.3777, 0.5336



72.8044, 0.2772, 0.5178



72.8044, 0.1915, 0.4057

Triad

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



72.8044, 0.2772, 0.5178



72.8044, 0.1596, 0.1742



72.8044, 0.5158, 0.3251

Complementary

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



72.8044, 0.2772, 0.5178



23.1232, 0.4814, 0.2426

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.



72.8044, 0.4334, 0.2586



72.8044, 0.2772, 0.5178



72.8044, 0.2192, 0.1763

Square

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



72.8044, 0.2772, 0.5178



72.8044, 0.1352, 0.2049



72.8044, 0.3169, 0.2059



72.8044, 0.5238, 0.3981

Rectangle

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



72.8044, 0.2772, 0.5178



72.8044, 0.1551, 0.3183



72.8044, 0.3169, 0.2059



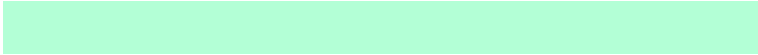
72.8044, 0.4957, 0.3020

Sweetspot

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



72.8074, 0.2772, 0.5178



85.8741, 0.2901, 0.3757



77.1397, 0.3425, 0.5662



18.0555, 0.2873, 0.3835



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.



72.8074, 0.2772, 0.5178



72.7971, 0.2773, 0.5182



77.9507, 0.2290, 0.3444



20.3064, 0.3053, 0.3422



38.0674, 0.2764, 0.5152



3.7282, 0.2704, 0.4933

Inverse Universe

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



23.1232, 0.4814, 0.2426



23.1040, 0.4818, 0.2428



21.3017, 0.6362, 0.3280



18.1519, 0.3209, 0.3162



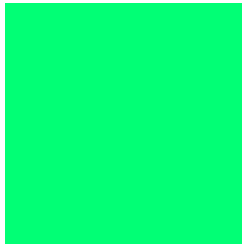
12.1028, 0.4785, 0.2409



1.2005, 0.4555, 0.2283

Previews

White Background



This preview shows how the Yxy color 72.8044, 0.2772, 0.5178 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 72.8044, 0.2772, 0.5178 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 72.8044, 0.2772, 0.5178

Background



This preview shows how black text looks on a background with the Yxy color 72.8044, 0.2772, 0.5178.



This preview shows how white text looks on a background with the Yxy color 72.8044, 0.2772, 0.5178.

Color Blindness Simulation

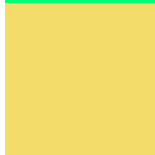
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

72.8108, 0.2772, 0.5178



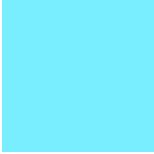
Protanopia

71.2610, 0.4068, 0.4452



Deuteranopia

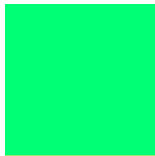
70.8850, 0.3841, 0.3827



Tritanopia

72.4340, 0.2409, 0.3088

Trichromacy



Original Color

72.8108, 0.2772, 0.5178



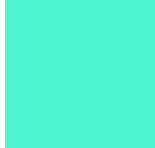
Protanomaly

66.3505, 0.3324, 0.4856



Deuteranomaly

65.1818, 0.3193, 0.4365



Tritanomaly

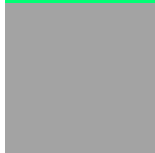
70.6869, 0.2495, 0.3799

Monochromacy



Original Color

72.8108, 0.2772, 0.5178



Achromatopsia

36.6253, 0.3127, 0.3290



Achromatomaly

44.4982, 0.2803, 0.4071

CSS Examples

Text

The CSS property to change the color of the text to Yxy 72.8044, 0.2772, 0.5178 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(1, 255, 117)` looks like.

```
.text, #text, p{  
    color:rgb(1, 255, 117)  
}
```

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(1, 255, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 255, 117) }
```

Border

The CSS property to change the border of an element to Yxy 72.8044, 0.2772, 0.5178 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(1, 255, 117) }
```

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

```
.border{ border-color:rgb(1, 255, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 255, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 255, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 255, 117);  
box-shadow:4px 4px 4px 4px rgb(1, 255,  
117) }
```


Background

The CSS property to change the background color of an element to Yxy 72.8044, 0.2772, 0.5178 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 255, 117) }
```

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

```
.background{ background-color: rgb(1, 255,  
117) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor