

Converting Colors

$Y_{xy}(72.8133, 0.3108, 0.5914)$

Have a look what the booklet for
Yxy(72.8133, 0.3108, 0.5914)
contains.

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Color

Yxy(72.8221, 0.3109, 0.5913)

Conversions

Conversions Part 1

Format	Color
Hex	46FF00
RGB	70, 255, 0
RGB Percent	27%, 100%, 0%
CMY	0.7253, 0.0000, 0.9989
CMYK	0.73, 0.00, 1.00, 0.00
HSL	104°, 100%, 50%
HSV	104°, 100%, 100%
XYZ	38.2892, 72.8221, 12.0446
YIQ	170.6150, -28.4050, -118.5250

Conversions

Conversions Part 2

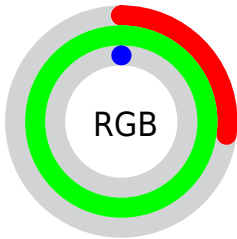
Format	Color
RYB	0, 255, 185
Decimal	4652800
CIELab	88.36, -80.57, 83.93
CIELCh	88, 116.338, 133.829
Yxy	72.8221, 0.3109, 0.5913
Android (android.graphics.Color)	4282842880 (0xFF46FF00)
YUV	170.6150, -84.1132, -88.2394
Hunter-Lab	85.3359, -69.2470, 51.3667

Details

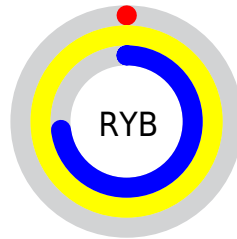
The Yxy color **72.8221, 0.3109, 0.5913** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **17.5683, 0.2513, 0.1158**, and the grayscale version is **40.9849, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.3124, 0.3284, 0.5210**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.8164, 0.3109, 0.5914**, and if you desaturate by 10%, it is **73.6957, 0.3156, 0.5812**.

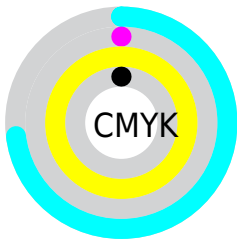
Distribution



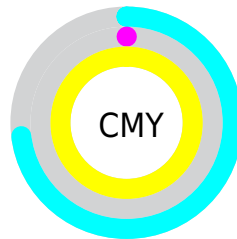
- Red (27%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (73%)



- Cyan (73%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)





- Cyan (73%)
- Magenta (0%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 72.8221, 0.3109, 0.5913 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 72.8221, 0.3109, 0.5913 by changing the saturation by 10% instead.


 72.8221, 0.3109,
0.5913

 72.8221, 0.3109,
0.5913

470.3980, 0.3249,
0.4629


 53.8305, 0.3037,
0.6197


 123.2246, 0.3189,
0.5469

 38.4662, 0.2929,
0.6533


 155.4043, 0.3211,
0.5294


 26.3447, 0.2762,
0.6927

 192.7489, 0.3225,
0.5144

 17.0817, 0.2535,
0.7465

 235.6427, 0.3235,
0.5013

 10.2928, 0.2117,
0.7883

 284.4701, 0.3241,
0.4899

 5.5935, 0.1555,
0.8445


 339.6155, 0.3245,

 2.5995, 0.0000,

0.4798


1.0000


401.4634, 0.3248,
0.4709

 0.9264, 0.0000,
1.0000

 0.0000, 0.0000,
0.0000


 72.8221, 0.3109,
0.5913


 72.8221, 0.3109,
0.5913


 72.8164, 0.3109,
0.5914

 73.6957, 0.3156,
0.5812

 74.8918, 0.3198,
0.5643


 76.4571, 0.3227,
0.5406


 78.4234, 0.3242,
0.5117

 80.8189, 0.3243,
0.4795

 83.6690, 0.3233,
0.4462

 86.9967, 0.3214,
0.4136

 90.8236, 0.3188,
0.3827

 95.1699, 0.3158,
0.3543

Harmonies

Analogous

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



72.8221, 0.4263, 0.5432



72.8221, 0.3109, 0.5913



72.8221, 0.2014, 0.4991

Triad

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



72.8221, 0.3109, 0.5913



72.8221, 0.1187, 0.1563



72.8221, 0.5289, 0.2841

Complementary

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



72.8221, 0.3109, 0.5913



17.5683, 0.2513, 0.1158

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.



72.8221, 0.3987, 0.2156



72.8221, 0.3109, 0.5913



72.8221, 0.1665, 0.1463

Square

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



72.8221, 0.3109, 0.5913



72.8221, 0.1062, 0.2077



72.8221, 0.2600, 0.1669



72.8221, 0.5730, 0.3608

Rectangle

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



72.8221, 0.3109, 0.5913



72.8221, 0.1479, 0.3811



72.8221, 0.2600, 0.1669



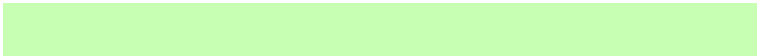
72.8221, 0.4920, 0.2600

Sweetspot

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



72.8243, 0.3109, 0.5913



86.9588, 0.3214, 0.4139



55.0560, 0.4814, 0.4559



18.3002, 0.3223, 0.4275



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.



72.8243, 0.3109, 0.5913



72.8164, 0.3109, 0.5914



71.8020, 0.2944, 0.5796



20.4088, 0.3157, 0.3533



38.1111, 0.3118, 0.5906



3.7621, 0.3198, 0.5843

Inverse Universe

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



17.5683, 0.2513, 0.1158



17.5532, 0.2512, 0.1158



25.4270, 0.3860, 0.1901



18.0356, 0.3094, 0.3053



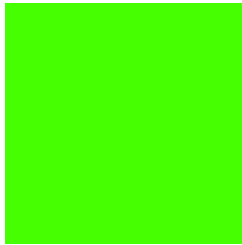
9.2499, 0.2524, 0.1164



0.9549, 0.2604, 0.1208

Previews

White Background



This preview shows how the Yxy color 72.8221, 0.3109, 0.5913 looks on a white background.

Color Contrast Check

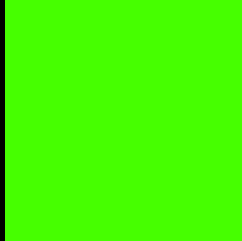
Large Text (above 18pt) WCAG AA × Fail

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 72.8221, 0.3109, 0.5913 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 72.8221, 0.3109, 0.5913

Background



This preview shows how black text looks on a background with the Yxy color 72.8221, 0.3109, 0.5913.



This preview shows how white text looks on a background with the Yxy color 72.8221, 0.3109, 0.5913.

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

72.8221, 0.3109, 0.5913

Protanopia

71.1429, 0.4411, 0.4880

Deuteranopia

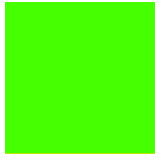
71.0505, 0.3909, 0.3938



Tritanopia

71.8780, 0.2435, 0.3066

Trichromacy



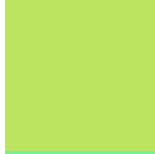
Original Color

72.8221, 0.3109, 0.5913



Protanomaly

68.3451, 0.3813, 0.5355



Deuteranomaly

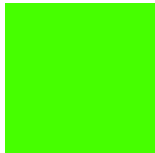
67.0227, 0.3641, 0.4823



Tritanomaly

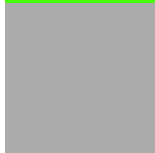
69.8980, 0.2798, 0.4369

Monochromacy



Original Color

72.8221, 0.3109, 0.5913



Achromatopsia

40.7240, 0.3127, 0.3290



Achromatomaly

48.4135, 0.3237, 0.4648

CSS Examples

Text

The CSS property to change the color of the text to Yxy 72.8221, 0.3109, 0.5913 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(70, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(70, 255, 0)  
}
```

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(70, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 255, 0) }
```

Border

The CSS property to change the border of an element to Yxy 72.8221, 0.3109, 0.5913 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(70, 255, 0) }
```

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

```
.border{ border-color:rgb(70, 255, 0) }
```

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

Here you see how a box with a 4 pixel rgb(70, 255, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(70, 255, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 72.8221, 0.3109, 0.5913 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 255, 0) }
```

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

```
.background{ background-color: rgb(70, 255,  
0) }
```

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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