

Converting Colors

`RYB(42, 229, 136)`

Have a look what the booklet for
RYB(42, 229, 136) contains.

RYB(42, 229, 136)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

RYB(42, 229, 136)

Conversions

Conversions Part 1

Format	Color
Hex	87E52A
RGB	135, 229, 42
RGB Percent	53%, 90%, 16%
CMY	0.4706, 0.1020, 0.8353
CMYK	0.41, 0.00, 0.82, 0.10
HSL	90°, 78%, 53%
HSV	90°, 82%, 90%
XYZ	38.4289, 61.3567, 12.0081
YIQ	179.5760, 4.0030, -78.0850

Conversions

Conversions Part 2

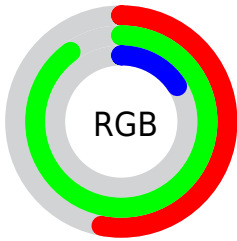
Format	Color
RYB	42, 229, 136
Decimal	8906026
CIELab	82.57, -55.15, 74.04
CIElCh	83, 92.319, 126.681
Yxy	61.3567, 0.3437, 0.5488
Android (android.graphics.Color)	4287096106 (0xFF87E52A)
YUV	179.5760, -67.8250, -39.0932
Hunter-Lab	78.3305, -49.5064, 45.7422

Details

The RYB color **42, 229, 136** is a dark color, and the websafe version is hex **66CC00**. The color can be described as middle washed chartreuse. A complement of this color would be **136, 42, 229**, and the grayscale version is **180, 180, 180**.

A 20% lighter version of the original color is **105, 255, 165**, and **0, 173, 99** is the 20% darker color. If you saturate the color by 10%, you get **19, 229, 125**, and if you desaturate by 10%, it is **65, 229, 147**.

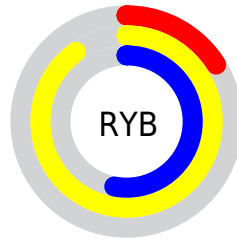
Distribution



Red (53%)

Green (90%)

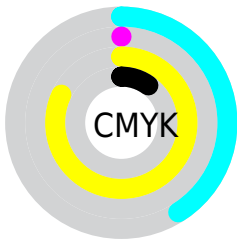
Blue (16%)



Red (16%)

Yellow (90%)

Blue (53%)

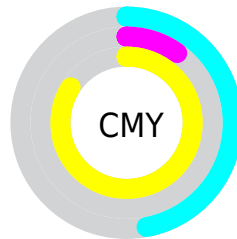


Cyan (41%)

Magenta (0%)

Yellow (82%)

Black (10%)



Cyan (47%)



















Magenta (10%)

Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the RYB color 42, 229, 136 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 RYB color 42, 229, 136 by changing the saturation by 10% instead.

 42, 229, 136	 42, 229, 136
 255, 255, 255	 0, 201, 96
 105, 255, 165	 0, 173, 99
 134, 255, 164	 0, 146, 108
 163, 255, 163	 0, 119, 119
 192, 255, 192	 0, 93, 93
 221, 255, 221	 0, 69, 69
 251, 255, 251	 0, 47, 47
	 0, 16, 16
	 0, 0, 0

■ 42, 229, 136

■ 42, 229, 136

■ 19, 229, 125

■ 65, 229, 147

■ 0, 229, 115

■ 88, 229, 159

■ 111, 229, 170

■ 134, 229, 182

■ 157, 229, 193

■ 179, 229, 204

■ 202, 229, 215

■ 225, 229, 227

■ 239, 229, 248

Harmonies

Analogous

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



22, 228, 0



42, 229, 136



0, 154, 240

Triad

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



42, 229, 136



0, 122, 255



255, 111, 190

Complementary

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



42, 229, 136



136, 42, 229

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.



255, 131, 255



42, 229, 136



0, 115, 255

Square

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



42, 229, 136



0, 124, 255



231, 173, 255



255, 144, 106

Rectangle

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



42, 229, 136



0, 136, 244



231, 173, 255



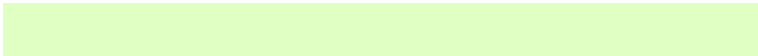
255, 112, 219

Sweetspot

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



42, 229, 136



194, 255, 225



227, 229, 42



91, 128, 110



0, 0, 0



128, 128, 128

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



42, 229, 136



5, 255, 131



42, 229, 229



103, 115, 109



0, 179, 90



0, 51, 26

Inverse Universe

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



136, 42, 229



131, 5, 255



229, 42, 229



109, 103, 115



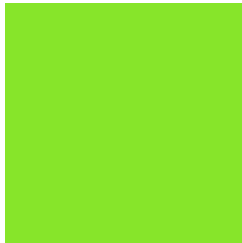
90, 0, 179



26, 0, 51

Previews

White Background



This preview shows how the RYB color 42, 229, 136 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 RYB color 42, 229, 136 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](#).

RYP 42, 229, 136 Background



This preview shows how black text looks on a background with the RYP color 42, 229, 136.

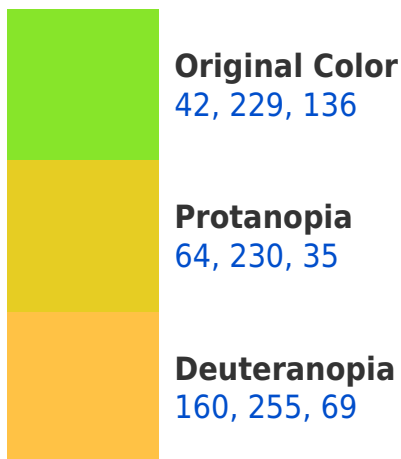


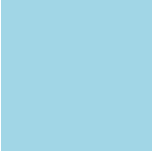
This preview shows how white text looks on a background with the RYP color 42, 229, 136.

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





Tritanopia
161, 191, 230

Trichromacy



Original Color

42, 229, 136



Protanomaly

38, 214, 57



Deuteranomaly

63, 211, 59



Tritanomaly

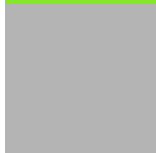
152, 210, 219

Monochromacy



Original Color

42, 229, 136



Achromatopsia

180, 180, 180



Achromatomaly

130, 198, 164

CSS Examples

Text

The CSS property to change the color of the text to RYB 42, 229, 136 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(135, 229, 42)` looks like.

```
.text, #text, p{  
    color:rgb(135, 229, 42)  
}
```

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(135, 229, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 229, 42) }
```

Border

The CSS property to change the border of an element to RYB 42, 229, 136 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(135, 229, 42) }
```

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

```
.border{ border-color:rgb(135, 229, 42) }
```

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

Here you see how a box with a 4 pixel rgb(135, 229, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 229, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 229, 42);  
box-shadow:4px 4px 4px 4px rgb(135, 229,  
42) }
```

Background

The CSS property to change the background color of an element to RYB 42, 229, 136 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 229, 42) }
```

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

```
.background{ background-color: rgb(135,  
229, 42) }
```

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