

Converting Colors

`RYB(12, 220, 238)`

Have a look what the booklet for
RYB(12, 220, 238) contains.

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Color

RYB(12, 220, 238)

Conversions

Conversions Part 1

Format	Color
Hex	0CEE20
RGB	12, 238, 32
RGB Percent	5%, 93%, 13%
CMY	0.9529, 0.0667, 0.8762
CMYK	0.95, 0.00, 0.87, 0.07
HSL	125°, 90%, 49%
HSV	125°, 95%, 93%
XYZ	30.9809, 61.3291, 11.5400
YIQ	146.9420, -68.5700, -111.9780

Conversions

Conversions Part 2

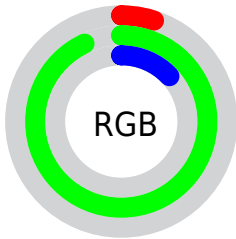
Format	Color
RYB	12, 220, 238
Decimal	847392
CIELab	82.56, -80.70, 75.27
CIELCh	83, 110.361, 136.994
Yxy	61.3291, 0.2983, 0.5906
Android (android.graphics.Color)	4279037472 (0xFF0CEE20)
YUV	146.9420, -56.6664, -118.3441
Hunter-Lab	78.3129, -66.4323, 46.0822

Details

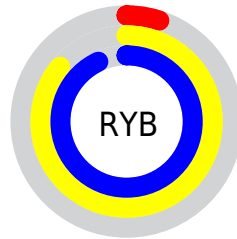
The RYB color **12, 220, 238** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **238, 12, 218**, and the grayscale version is **147, 147, 147**.

A 20% lighter version of the original color is **100, 255, 239**, and **0, 180, 180** is the 20% darker color. If you saturate the color by 10%, you get **0, 219, 238**, and if you desaturate by 10%, it is **36, 222, 238**.

Distribution



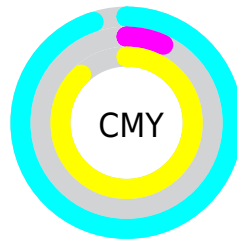
- Red (5%)
- Green (93%)
- Blue (13%)



- Red (5%)
- Yellow (86%)
- Blue (93%)



- Cyan (95%)
- Magenta (0%)
- Yellow (87%)
- Black (7%)
















- Cyan (95%)
- Magenta (7%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the RYB color 12, 220, 238 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 12, 220, 238 by changing the saturation by 10% instead.

 12, 220, 238	 12, 220, 238
 255, 255, 255	 0, 209, 209
 99, 255, 238	 0, 180, 180
 129, 255, 233	 0, 152, 152
 158, 255, 229	 0, 125, 125
 187, 255, 226	 0, 98, 98
 216, 255, 223	 0, 72, 72
 246, 255, 246	 0, 47, 47
	 0, 16, 16
	 0, 0, 0

■ 12, 220, 238

■ 12, 220, 238

■ 0, 219, 238

■ 36, 222, 238

■ 60, 224, 238

■ 83, 225, 238

■ 107, 227, 238

■ 131, 230, 238

■ 155, 232, 238

■ 179, 233, 238

■ 202, 235, 238

■ 226, 237, 238

Harmonies

Analogous

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



0, 219, 27



12, 220, 238



0, 152, 247

Triad

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



12, 220, 238



0, 121, 255



255, 73, 152

Complementary

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



12, 220, 238



238, 12, 218

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, 80, 255



12, 220, 238



0, 111, 255

Square

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



12, 220, 238



0, 125, 255



255, 145, 255



255, 192, 48

Rectangle

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



12, 220, 238



0, 131, 250



255, 145, 255



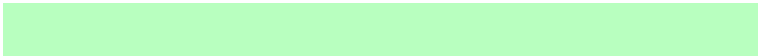
255, 62, 186

Sweetspot

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



12, 220, 238



184, 249, 255



12, 238, 31



84, 124, 128



0, 0, 0



128, 128, 128

Same Dimension

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



12, 220, 238



0, 235, 255



12, 155, 238



108, 119, 120



0, 169, 184



0, 51, 56

Inverse Universe

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



238, 12, 218



255, 0, 233



238, 12, 106



120, 108, 119



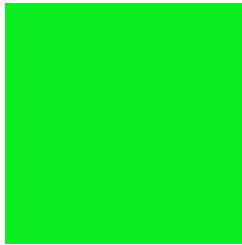
184, 0, 168



56, 0, 51

Previews

White Background



This preview shows how the RYB color 12, 220, 238 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 12, 220, 238 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

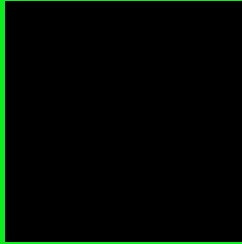
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

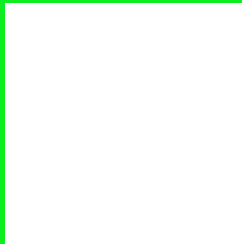
Any Text WCAG AAA ✓ Pass

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

RYB 12, 220, 238 Background



This preview shows how black text looks on a background with the RYB color 12, 220, 238.



This preview shows how white text looks on a background with the RYB color 12, 220, 238.

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

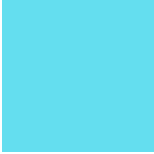
12, 220, 238

Protanopia

48, 229, 20

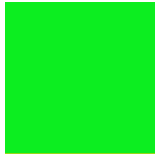
Deuteranopia

151, 255, 60



Tritanopia
100, 165, 239

Trichromacy



Original Color

12, 220, 238



Protanomaly

24, 216, 90



Deuteranomaly

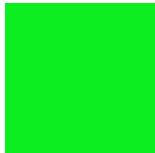
50, 209, 92



Tritanomaly

68, 167, 227

Monochromacy



Original Color

12, 220, 238



Achromatopsia

147, 147, 147



Achromatomaly

98, 174, 180

CSS Examples

Text

The CSS property to change the color of the text to RYB 12, 220, 238 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(12, 238, 32)` looks like.

```
.text, #text, p{  
    color:rgb(12, 238, 32)  
}
```

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(12, 238, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 238, 32) }
```

Border

The CSS property to change the border of an element to RYB 12, 220, 238 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(12, 238, 32) }
```

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

```
.border{ border-color:rgb(12, 238, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 238, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 238, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 238, 32);  
box-shadow:4px 4px 4px 4px rgb(12, 238,  
32) }
```

Background

The CSS property to change the background color of an element to RGB 12, 220, 238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 238, 32) }
```

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

```
.background{ background-color: rgb(12, 238,  
32) }
```

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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