

Converting Colors

CIELCh(77, 89.767, 137.312)

Have a look what the booklet for
CIELCh(77, 89.767, 137.312)
contains.

CIELCh(77, 89.563, 137.340)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(77, 89.563, 137.340)

Conversions

Conversions Part 1

Format	Color
Hex	49D941
RGB	73, 217, 65
RGB Percent	29%, 85%, 25%
CMY	0.7128, 0.1483, 0.7444
CMYK	0.66, 0.00, 0.70, 0.15
HSL	117°, 67%, 55%
HSV	117°, 70%, 85%
XYZ	28.5862, 51.5317, 13.4691
YIQ	156.6160, -37.0320, -77.8000

Conversions

Conversions Part 2

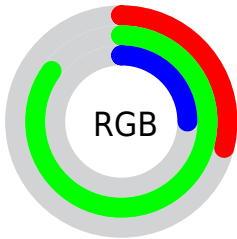
Format	Color
RYB	65, 217, 209
Decimal	4839745
CIELab	77.00, -65.86, 60.69
CIELCh	77, 89.563, 137.340
Yxy	51.5317, 0.3055, 0.5506
Android (android.graphics.Color)	4283029825 (0xFF49D941)
YUV	156.6160, -45.1667, -73.3312
Hunter-Lab	71.7856, -54.5431, 39.1254

Details

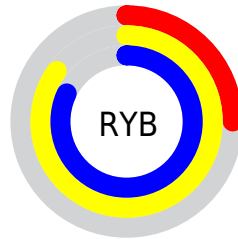
The CIELCh color **77, 89.563, 137.340** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **54, 88.570, 326.060**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **91, 78.854, 137.414**, and **58, 84.923, 136.016** is the 20% darker color. If you saturate the color by 10%, you get **76, 97.620, 136.546**, and if you desaturate by 10%, it is **78, 79.367, 138.295**.

Distribution



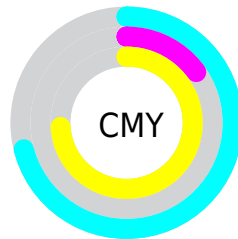
- Red (29%)
- Green (85%)
- Blue (25%)



- Red (25%)
- Yellow (85%)
- Blue (82%)



- Cyan (66%)
- Magenta (0%)
- Yellow (70%)
- Black (15%)



- Cyan (71%)
- Magenta (15%)
- Yellow (74%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 89.563, 137.340 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 CIELCh color 77, 89.563, 137.340 by changing the saturation by 10% instead.

 77, 89.563,
137.340

 77, 89.563,
137.340

 100, 89.563,
137.340

 67, 89.563,
137.340

 97, 89.563,
137.340

 57, 89.563,
137.340

 47, 89.563,
137.340

 37, 89.563,
137.340

 27, 89.563,
137.340

 17, 89.563,
137.340

 7, 89.563, 137.340

■ 0, 89.563, 137.340

■ 77, 89.563,
137.340

■ 77, 89.563,
137.340

■ 76, 97.620,
136.546

■ 78, 79.367,
138.295

■ 76, 103.025,
136.050

■ 79, 67.607,
139.284

■ 76, 105.844,
135.836

■ 80, 54.791,
140.226

■ 76, 105.847,
135.836

■ 81, 41.333,
141.080

■ 83, 27.556,
141.832

■ 85, 13.708,
142.488

■ 87, 0.030, 314.298

■ 89, 13.530,
323.468

■ 91, 23.679,
325.249

Harmonies

Complementary

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



77, 89.563, 137.340



54, 88.570, 326.060

Rectangle

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



77, 89.563, 137.340



77, 89.563, 187.340



77, 89.563, 317.340



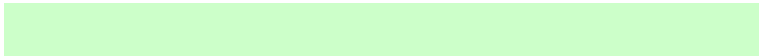
77, 89.563, 7.340

Sweetspot

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



77, 89.563, 137.341



95, 32.989, 141.747



82, 69.096, 100.389



50, 22.334, 141.545



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



77, 89.563, 137.341



88, 113.507, 136.265



78, 66.394, 151.952



45, 7.852, 142.521



62, 89.411, 135.779



15, 33.225, 139.233

Inverse Universe

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



54, 88.570, 326.060



60, 110.988, 326.232



53, 67.420, 348.221



43, 7.871, 323.483



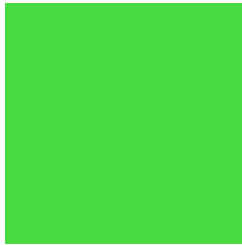
39, 86.793, 326.167



7, 34.365, 326.356

Previews

White Background



This preview shows how the CIELCh color 77, 89.563, 137.340 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 CIELCh color 77, 89.563, 137.340 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](#).

CIELCh 77, 89.563, 137.340

Background



This preview shows how black text looks on a background with the CIELCh color 77, 89.563, 137.340.

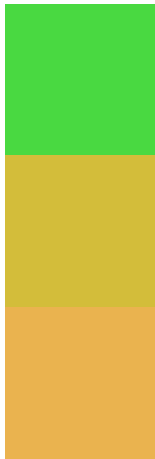


This preview shows how white text looks on a background with the CIELCh color 77, 89.563, 137.340.

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
77, 89.563, 137.340

Protanopia
76, 65.505, 95.460

Deuteranopia
76, 58.022, 80.184



Tritanopia
77, 28.177, 215.516

Trichromacy



Original Color
77, 89.563, 137.340



Protanomaly
75, 69.471, 117.337



Deuteranomaly
75, 60.406, 111.457



Tritanomaly
76, 44.060, 163.013

Monochromacy



Original Color
77, 89.563, 137.340



Achromatopsia
65, 0.008, 296.813



Achromatomaly
68, 36.168, 141.013

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 77, 89.563, 137.340 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(73, 217, 65)` looks like.

```
.text, #text, p{  
    color:rgb(73, 217, 65)  
}
```

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(73, 217, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 217, 65) }
```

Border

The CSS property to change the border of an element to CIELCh 77, 89.563, 137.340 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(73, 217, 65) }
```

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

```
.border{ border-color:rgb(73, 217, 65) }
```

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

Here you see how a box with a 4 pixel rgb(73, 217, 65) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 217, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 217, 65);  
box-shadow:4px 4px 4px 4px rgb(73, 217,  
65) }
```

Background

The CSS property to change the background color of an element to CIELCh 77, 89.563, 137.340 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 217, 65) }
```

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

```
.background{ background-color: rgb(73, 217,  
65) }
```

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