

Converting Colors

CIELCh(50, 48.350, 137.198)

Have a look what the booklet for
CIELCh(50, 48.350, 137.198)
contains.

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Color

CIELCh(50, 48.350, 137.198)

Conversions

Conversions Part 1

Format	Color
Hex	46853C
RGB	70, 133, 60
RGB Percent	27%, 52%, 24%
CMY	0.7253, 0.4782, 0.7645
CMYK	0.47, 0.00, 0.55, 0.48
HSL	112°, 38%, 38%
HSV	112°, 55%, 52%
XYZ	11.7400, 18.4187, 7.2173
YIQ	105.8410, -14.1150, -36.0590

Conversions

Conversions Part 2

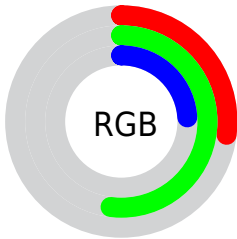
Format	Color
R_{YB}	60, 133, 123
Decimal	4621628
CIE _{Lab}	50.00, -35.47, 32.85
CIE _{LCh}	50, 48.350, 137.198
Yxy	18.4187, 0.3141, 0.4928
Android (android.graphics.Color)	4282811708 (0xFF46853C)
YUV	105.8410, -22.5996, -31.4326
Hunter-Lab	42.9170, -26.2757, 20.0712

Details

The CIELCh color **50, 48.350, 137.198** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **36, 48.825, 322.968**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 48.620, 137.026**, and **30, 48.396, 137.288** is the 20% darker color. If you saturate the color by 10%, you get **49, 55.954, 136.449**, and if you desaturate by 10%, it is **51, 40.063, 137.961**.

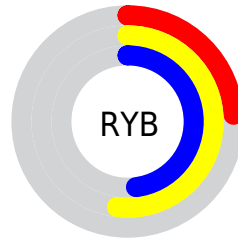
Distribution



Red (27%)

Green (52%)

Blue (24%)



Red (24%)

Yellow (52%)

Blue (48%)

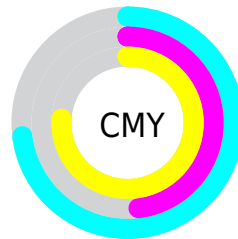


Cyan (47%)

Magenta (0%)

Yellow (55%)

Black (48%)



Cyan (73%)

Magenta (48%)

Yellow (76%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 48.350, 137.198 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 50, 48.350, 137.198 by changing the saturation by 10% instead.

 50, 48.350,
137.198


 50, 48.350,
137.198

 100, 48.350,
137.198

 40, 48.350,
137.198

 70, 48.350,
137.198

 30, 48.350,
137.198


 80, 48.350,
137.198

 20, 48.350,
137.198

 90, 48.350,
137.198

 10, 48.350,
137.198

 0, 48.350, 137.198

 50, 48.350,
137.198

 50, 48.350,
137.198

■ 49, 55.954,
136.449

■ 51, 40.063,
137.961

■ 49, 62.556,
135.798

■ 52, 31.345,
138.686

■ 49, 67.795,
135.360

■ 53, 22.394,
139.347

■ 48, 71.409,
135.220

■ 54, 13.358,
139.938

■ 48, 72.954,
135.080

■ 55, 4.348, 140.475

■ 56, 4.557, 320.842

■ 58, 13.300,
321.246

■ 59, 21.843,
321.576

■ 61, 30.165,
321.855

Harmonies

Complementary

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



50, 48.350, 137.198



36, 48.825, 322.968

Rectangle

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



50, 48.350, 137.198



50, 48.350, 187.198



50, 48.350, 317.198



50, 48.350, 7.198

Sweetspot

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



50, 48.351, 137.199



68, 17.855, 139.854



51, 35.368, 97.264



35, 12.010, 139.756



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



50, 48.351, 137.199



63, 70.171, 136.264



50, 39.024, 151.111



27, 5.037, 140.248



47, 71.745, 135.062



1, 1.203, 140.661

Inverse Universe

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



36, 48.825, 322.968



43, 70.594, 323.281



37, 39.572, 340.935



26, 5.057, 321.050



27, 70.841, 323.119



0, 1.203, 320.657

Previews

White Background



This preview shows how the CIE LCh color 50, 48.350, 137.198 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 48.350, 137.198 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 × Fail

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

CIELCh 50, 48.350, 137.198

Background



This preview shows how black text looks on a background with the CIELCh color 50, 48.350, 137.198.



This preview shows how white text looks on a background with the CIELCh color 50, 48.350, 137.198.

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
50, 48.350, 137.198

Protanopia
50, 36.155, 95.606

Deuteranopia
50, 31.916, 78.171



Tritanopia
50, 14.946, 221.335

Trichromacy



Original Color
50, 48.350, 137.198

Protanomaly
49, 37.527, 115.133

Deuteranomaly
49, 32.371, 107.481

Tritanomaly
50, 21.880, 164.789

Monochromacy



Original Color
50, 48.350, 137.198

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 18.659, 139.161

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 48.350, 137.198 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, 133, 60)` looks like.

```
.text, #text, p{  
    color:rgb(70, 133, 60)  
}
```

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, 133, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 133, 60) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 48.350, 137.198 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, 133, 60) }
```

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

```
.border{ border-color:rgb(70, 133, 60) }
```

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

Here you see how a box with a 4 pixel rgb(70, 133, 60) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 133, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 133, 60);  
box-shadow:4px 4px 4px 4px rgb(70, 133,  
60) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 48.350, 137.198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 133, 60) }
```

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

```
.background{ background-color: rgb(70, 133,  
60) }
```

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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