

Converting Colors

CIELCh(45, 37.147, 151.842)

Have a look what the booklet for
CIELCh(45, 37.147, 151.842)
contains.

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Color

CIELCh(45, 37.460, 151.851)

Conversions

Conversions Part 1

Format	Color
Hex	31784C
RGB	49, 120, 76
RGB Percent	19%, 47%, 30%
CMY	0.8088, 0.5303, 0.7028
CMYK	0.59, 0.00, 0.37, 0.53
HSL	143°, 42%, 33%
HSV	143°, 59%, 47%
XYZ	9.2396, 14.5417, 9.1179
YIQ	93.7550, -28.1920, -28.7360

Conversions

Conversions Part 2

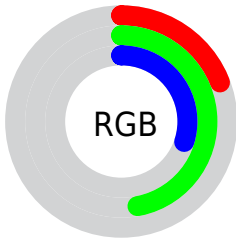
Format	Color
R_{YB}	49, 100, 120
Decimal	3242060
CIE _{Lab}	45.00, -33.03, 17.67
CIE _{LCh}	45, 37.460, 151.851
Y _{xy}	14.5417, 0.2808, 0.4420
Android (android.graphics.Color)	4281432140 (0xFF31784C)
YUV	93.7550, -8.7532, -39.2501
Hunter-Lab	38.1336, -23.4839, 12.5170

Details

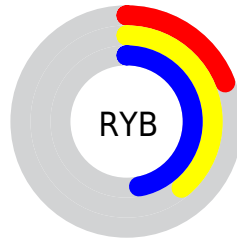
The CIELCh color **45, 37.460, 151.851** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **32, 38.131, 342.994**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 37.559, 151.663**, and **26, 35.660, 148.837** is the 20% darker color. If you saturate the color by 10%, you get **45, 42.811, 150.343**, and if you desaturate by 10%, it is **46, 31.663, 153.182**.

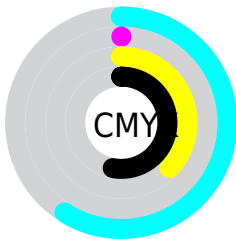
Distribution



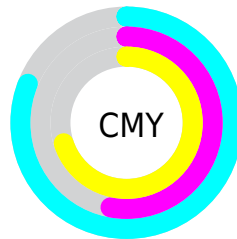
- Red (19%)
- Green (47%)
- Blue (30%)



- Red (19%)
- Yellow (39%)
- Blue (47%)



- Cyan (59%)
- Magenta (0%)
- Yellow (37%)
- Black (53%)





- Cyan (81%)
- Magenta (53%)
- Yellow (70%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 37.460, 151.851 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 45, 37.460, 151.851 by changing the saturation by 10% instead.


 45, 37.460,
151.851


 45, 37.460,
151.851


 100, 37.460,
151.851


 35, 37.460,
151.851

 65, 37.460,
151.851


 25, 37.460,
151.851

 75, 37.460,
151.851

 15, 37.460,
151.851


 85, 37.460,
151.851

 5, 37.460, 151.851

 95, 37.460,
151.851

 0, 37.460, 151.851

 45, 37.460,

 45, 37.460,

151.851

■ 45, 42.811,
150.343

■ 44, 47.627,
148.650

■ 44, 51.851,
146.783

■ 44, 55.602,
144.915

■ 44, 55.860,
144.795

151.851

■ 46, 31.663,
153.182

■ 46, 25.522,
154.353

■ 47, 19.145,
155.383

■ 48, 12.632,
156.294

■ 49, 6.072, 157.117

■ 50, 0.464, 337.250

■ 52, 6.918, 338.394

■ 53, 13.251,
338.990

■ 55, 19.434,

339.523

Harmonies

Complementary

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



45, 37.460, 151.851



32, 38.131, 342.994

Rectangle

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



45, 37.460, 151.851



45, 37.460, 201.851



45, 37.460, 331.851



45, 37.460, 21.851

Sweetspot

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



45, 37.461, 151.851



62, 14.596, 156.367



47, 41.392, 121.477



32, 10.222, 156.157



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 37.461, 151.851



57, 53.841, 149.778



46, 24.646, 183.421



24, 3.614, 157.139



45, 56.806, 144.741



87, 99.065, 143.469

Inverse Universe

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



32, 38.131, 342.994



38, 53.791, 344.815



31, 33.436, 16.902



23, 3.639, 338.336



26, 51.563, 350.155



55, 86.545, 351.854

Previews

White Background



This preview shows how the CIELCh color 45, 37.460, 151.851 looks on a white 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

Black Background



This preview shows how the CIE LCh color 45, 37.460, 151.851 looks on a black 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

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

CIELCh 45, 37.460, 151.851

Background



This preview shows how black text looks on a background with the CIELCh color 45, 37.460, 151.851.



This preview shows how white text looks on a background with the CIELCh color 45, 37.460, 151.851.

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


45, 37.460, 151.851

Protanopia

45, 21.625, 96.023

Deuteranopia

45, 16.925, 69.972



Tritanopia
45, 17.779, 215.396

Trichromacy



Original Color
45, 37.460, 151.851

Protanomaly
44, 24.543, 127.971

Deuteranomaly
44, 18.394, 122.903

Tritanomaly
45, 21.654, 180.881

Monochromacy



Original Color
45, 37.460, 151.851

Achromatopsia
40, 0.006, 296.813

Achromatomaly
41, 14.256, 154.995

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 37.460, 151.851 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(49, 120, 76)` looks like.

```
.text, #text, p{  
    color:rgb(49, 120, 76)  
}
```

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(49, 120, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 120, 76) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 37.460, 151.851 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(49, 120, 76) }
```

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

```
.border{ border-color:rgb(49, 120, 76) }
```

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

Here you see how a box with a 4 pixel rgb(49, 120, 76) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 120, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 120, 76);  
box-shadow:4px 4px 4px 4px rgb(49, 120,  
76) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 37.460, 151.851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 120, 76) }
```

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

```
.background{ background-color: rgb(49, 120,  
76) }
```

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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