

Converting Colors

CIELCh(45, 42.375, 146.727)

Have a look what the booklet for
CIELCh(45, 42.375, 146.727)
contains.

CIELCh(45, 42.084, 146.754)	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(45, 42.084, 146.754)

Conversions

Conversions Part 1

Format	Color
Hex	307842
RGB	48, 120, 66
RGB Percent	19%, 47%, 26%
CMY	0.8104, 0.5282, 0.7401
CMYK	0.60, 0.00, 0.45, 0.53
HSL	135°, 43%, 33%
HSV	135°, 60%, 47%
XYZ	8.9809, 14.5417, 7.5320
YIQ	92.3160, -25.5780, -32.0580

Conversions

Conversions Part 2

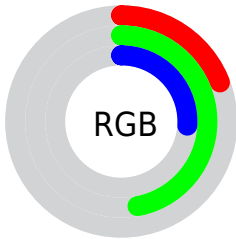
Format	Color
R_{YB}	48, 106, 120
Decimal	3176514
CIE _{Lab}	45.00, -35.20, 23.07
CIE _{LCh}	45, 42.084, 146.754
Yxy	14.5417, 0.2892, 0.4683
Android (android.graphics.Color)	4281366594 (0xFF307842)
YUV	92.3160, -12.9738, -38.8651
Hunter-Lab	38.1336, -24.6951, 14.9829

Details

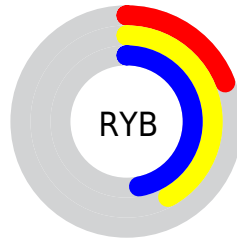
The CIELCh color $45, 42.084, 146.754$ is a dark color, and the websafe version is hex 006633 . A complement of this color would be $32, 41.885, 336.520$, and the grayscale version is $39, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 42.017, 146.928$, and $25, 39.537, 143.598$ is the 20% darker color. If you saturate the color by 10%, you get $45, 48.040, 145.324$, and if you desaturate by 10%, it is $46, 35.607, 148.025$.

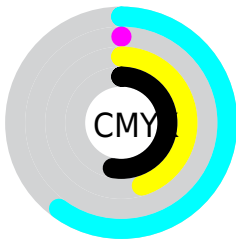
Distribution



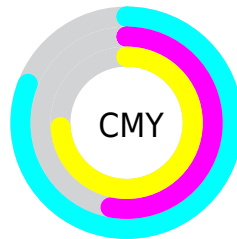
- Red (19%)
- Green (47%)
- Blue (26%)



- Red (19%)
- Yellow (42%)
- Blue (47%)



- Cyan (60%)
- Magenta (0%)
- Yellow (45%)
- Black (53%)





- Cyan (81%)
- Magenta (53%)
- Yellow (74%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 42.084, 146.754 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, 42.084, 146.754 by changing the saturation by 10% instead.


 45, 42.084,
146.754


 45, 42.084,
146.754


 100, 42.084,
146.754


 35, 42.084,
146.754

 65, 42.084,
146.754


 25, 42.084,
146.754

 75, 42.084,
146.754

 15, 42.084,
146.754

 85, 42.084,
146.754

 5, 42.084, 146.754

 95, 42.084,
146.754

 0, 42.084, 146.754

 45, 42.084,

 45, 42.084,

146.754

146.754

■ 45, 48.040,
145.324

■ 46, 35.607,
148.025

■ 44, 53.345,
143.746

■ 46, 28.745,
149.140

■ 44, 57.893,
142.057

■ 47, 21.629,
150.113

■ 44, 61.754,
140.485

■ 48, 14.380,
150.963

■ 44, 61.818,
140.461

■ 49, 7.100, 151.714

■ 51, 0.132, 330.638

■ 52, 7.253, 332.860

■ 53, 14.221,
333.374

■ 55, 21.006,

333.823

Harmonies

Complementary

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



45, 42.084, 146.754



32, 41.885, 336.520

Rectangle

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



45, 42.084, 146.754



45, 42.084, 196.754



45, 42.084, 326.754



45, 42.084, 16.754

Sweetspot

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



45, 42.085, 146.754



62, 16.108, 151.072



48, 40.757, 115.798



32, 11.286, 150.880



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, 42.085, 146.754



57, 60.487, 144.722



46, 27.728, 172.022



25, 4.126, 151.767



45, 63.635, 140.382



87, 109.715, 139.359

Inverse Universe

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



32, 41.885, 336.520



38, 58.828, 337.762



31, 33.664, 6.823



24, 4.142, 332.844



27, 56.622, 340.774



57, 94.452, 341.641

Previews

White Background



This preview shows how the CIELCh color 45, 42.084, 146.754 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, 42.084, 146.754 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, 42.084, 146.754

Background



This preview shows how black text looks on a background with the CIELCh color 45, 42.084, 146.754.



This preview shows how white text looks on a background with the CIELCh color 45, 42.084, 146.754.

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, 42.084, 146.754

Protanopia

45, 26.757, 96.216

Deuteranopia

45, 21.809, 73.697



Tritanopia
45, 17.527, 215.684

Trichromacy



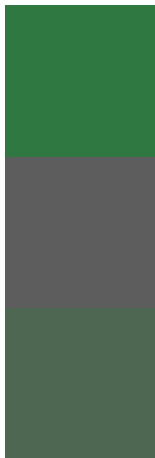
Original Color
45, 42.084, 146.754

Protanomaly
44, 29.334, 124.074

Deuteranomaly
44, 23.336, 118.035

Tritanomaly
45, 22.786, 175.237

Monochromacy



Original Color
45, 42.084, 146.754

Achromatopsia
39, 0.006, 296.813

Achromatomaly
41, 16.345, 149.887

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 42.084, 146.754 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(48, 120, 66)` looks like.

```
.text, #text, p{  
    color:rgb(48, 120, 66)  
}
```

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(48, 120, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 120, 66) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 42.084, 146.754 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(48, 120, 66) }
```

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

```
.border{ border-color:rgb(48, 120, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 120, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 120, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 120, 66);  
box-shadow:4px 4px 4px 4px rgb(48, 120,  
66) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 42.084, 146.754 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 120, 66) }
```

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

```
.background{ background-color: rgb(48, 120,  
66) }
```

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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