

Converting Colors

CIELCh(42, 12.268, 104.486)

Have a look what the booklet for
CIELCh(42, 12.268, 104.486)
contains.

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Color

CIELCh(42, 12.018, 104.125)

Conversions

Conversions Part 1

Format	Color
Hex	666450
RGB	102, 100, 80
RGB Percent	40%, 39%, 31%
CMY	0.6003, 0.6081, 0.6865
CMYK	0.00, 0.02, 0.22, 0.60
HSL	55°, 12%, 36%
HSV	55°, 22%, 40%
XYZ	11.4676, 12.5000, 9.3847
YIQ	98.3180, 7.6120, -5.7960

Conversions

Conversions Part 2

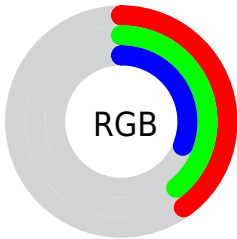
Format	Color
R_{YB}	82, 102, 80
Decimal	6710352
CIE _{Lab}	42.00, -2.93, 11.65
CIE _{LCh}	42, 12.018, 104.125
Yxy	12.5000, 0.3438, 0.3748
Android (android.graphics.Color)	4284900432 (0xFF666450)
YUV	98.3180, -9.0308, 3.2291
Hunter-Lab	35.3553, -3.9748, 9.0108




Details

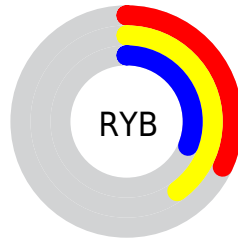
The CIELCh color $42, 12.018, 104.125$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $35, 12.477, 288.681$, and the grayscale version is $42, 0.006, 296.813$.




A 20% lighter version of the original color is $62, 12.287, 105.011$, and $22, 11.982, 102.521$ is the 20% darker color. If you saturate the color by 10%, you get $42, 17.547, 103.132$, and if you desaturate by 10%, it is $43, 6.451, 105.116$.

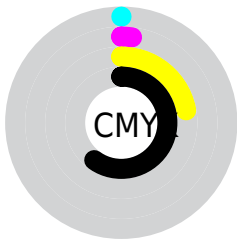
Distribution







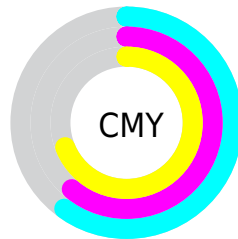
-  Red (40%)
-  Green (39%)
-  Blue (31%)






-  Red (32%)
-  Yellow (40%)
-  Blue (31%)



-  Cyan (0%)
-  Magenta (2%)
-  Yellow (22%)
-  Black (60%)





-  Cyan (60%)
-  Magenta (61%)
-  Yellow (69%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 12.018, 104.125 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 42, 12.018, 104.125 by changing the saturation by 10% instead.


 42, 12.018,
104.125


 42, 12.018,
104.125


 100, 12.018,
104.125


 32, 12.018,
104.125

 62, 12.018,
104.125


 22, 12.018,
104.125

 72, 12.018,
104.125

 12, 12.018,
104.125


 82, 12.018,
104.125

 2, 12.018, 104.125

 92, 12.018,
104.125

 0, 12.018, 104.125

 42, 12.018,

 42, 12.018,

104.125

■ 42, 17.547,
103.132

■ 41, 22.986,
102.132

■ 41, 28.259,
101.146

■ 40, 33.242,
100.189

■ 40, 37.754, 99.278

■ 39, 41.544, 98.432

■ 39, 44.334, 97.660

■ 39, 46.496, 97.043

104.125

■ 43, 6.451, 105.116

■ 43, 0.875, 106.025

■ 44, 4.691, 287.054

■ 44, 10.234,
287.960

■ 45, 15.746,
288.835

■ 46, 21.223,
289.674

■ 46, 26.660,
290.473

■ 47, 32.055,
291.233

■ 48, 37.407,

Harmonies

Complementary

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



42, 12.018, 104.125



35, 12.477, 288.681

Rectangle

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



42, 12.018, 104.125



42, 12.018, 154.125



42, 12.018, 284.125



42, 12.018, 334.125

Sweetspot

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



42, 12.019, 104.130



55, 4.145, 105.635



36, 9.829, 12.998



28, 2.727, 105.598



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



42, 12.019, 104.130



54, 17.957, 103.615



42, 13.742, 124.491



21, 3.128, 105.373



44, 50.525, 96.957



87, 87.315, 96.567

Inverse Universe

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



35, 12.477, 288.681



44, 18.829, 289.389



36, 14.212, 306.586



19, 3.180, 287.169



12, 69.367, 304.392



32, 124.465, 305.358

Previews

White Background



This preview shows how the CIE LCh color 42, 12.018, 104.125 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 CIELCh color 42, 12.018, 104.125 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

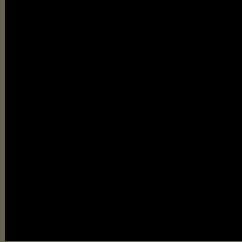
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 12.018, 104.125

Background



This preview shows how black text looks on a background with the CIELCh color 42, 12.018, 104.125.

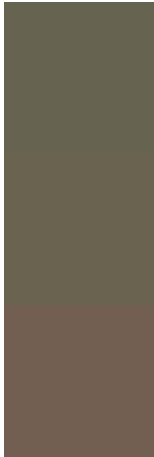


This preview shows how white text looks on a background with the CIELCh color 42, 12.018, 104.125.

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

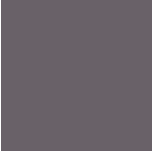
42, 12.018, 104.125

Protanopia

42, 12.303, 95.721

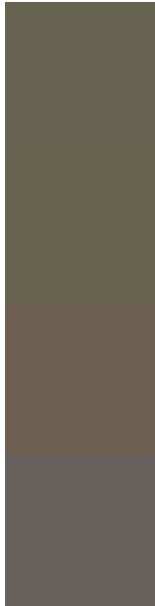
Deuteranopia

42, 12.461, 62.371



Tritanopia
42, 5.390, 328.429

Trichromacy



Original Color
42, 12.018, 104.125

Protanomaly
42, 12.211, 97.788

Deuteranomaly
42, 11.302, 77.590

Tritanomaly
42, 3.115, 54.960

Monochromacy



Original Color
42, 12.018, 104.125

Achromatopsia
42, 0.006, 296.813

Achromatomaly
42, 4.817, 109.447

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 12.018, 104.125 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(102, 100, 80)` looks like.

```
.text, #text, p{  
    color:rgb(102, 100, 80)  
}
```

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(102, 100, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 100, 80) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 12.018, 104.125 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(102, 100, 80) }
```

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

```
.border{ border-color:rgb(102, 100, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 100, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 100, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 100, 80);  
box-shadow:4px 4px 4px 4px rgb(102, 100,  
80) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 12.018, 104.125 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 100, 80) }
```

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

```
.background{ background-color: rgb(102,  
100, 80) }
```

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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