

Converting Colors

CIELCh(42, 1.170, 199.602)

Have a look what the booklet for
CIELCh(42, 1.170, 199.602) contains.

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Color

CIELCh(42, 1.234, 199.520)

Conversions

Conversions Part 1

Format	Color
Hex	616464
RGB	97, 100, 100
RGB Percent	38%, 39%, 39%
CMY	0.6207, 0.6090, 0.6090
CMYK	0.03, 0.00, 0.00, 0.61
HSL	180°, 2%, 39%
HSV	180°, 3%, 39%
XYZ	11.7158, 12.5000, 13.7794
YIQ	99.1030, -1.7880, -0.6360

Conversions

Conversions Part 2

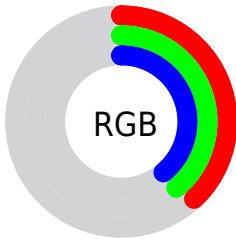
Format	Color
R_{YB}	97, 99, 100
Decimal	6382692
CIE Lab	42.00, -1.16, -0.41
CIE LCh	42, 1.234, 199.520
Yxy	12.5000, 0.3083, 0.3290
Android (android.graphics.Color)	4284572772 (0xFF616464)
YUV	99.1030, 0.4422, -1.8443
Hunter-Lab	35.3553, -2.7217, 1.6410

Details

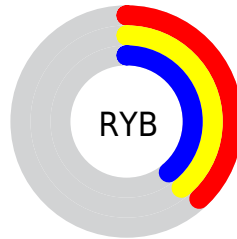
The CIELCh color **42, 1.234, 199.520** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **41, 1.257, 19.263**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **62, 1.148, 199.688**, and **22, 0.914, 199.467** is the 20% darker color. If you saturate the color by 10%, you get **41, 5.221, 198.763**, and if you desaturate by 10%, it is **43, 2.926, 19.618**.

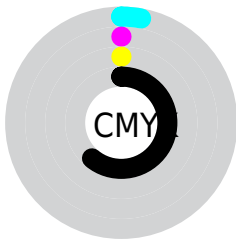
Distribution



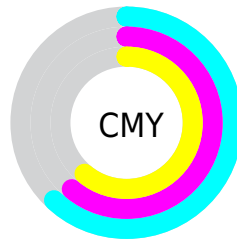
- Red (38%)
- Green (39%)
- Blue (39%)



- Red (38%)
- Yellow (39%)
- Blue (39%)



- Cyan (3%)
- Magenta (0%)
- Yellow (0%)
- Black (61%)



- Cyan (62%)
- Magenta (61%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 1.234, 199.520 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, 1.234, 199.520 by changing the saturation by 10% instead.

■ 42, 1.234, 199.520	■ 42, 1.234, 199.520
■ 100, 1.234, 199.520	■ 32, 1.234, 199.520
■ 62, 1.234, 199.520	■ 22, 1.234, 199.520
■ 72, 1.234, 199.520	■ 12, 1.234, 199.520
■ 82, 1.234, 199.520	■ 2, 1.234, 199.520
■ 92, 1.234, 199.520	■ 0, 1.234, 199.520

■ 42, 1.234, 199.520	■ 42, 1.234, 199.520
■ 41, 5.221, 198.763	■ 43, 2.926, 19.618
■ 40, 8.979, 198.270	■ 44, 7.213, 20.238

40, 12.451,
197.835

45, 11.586, 20.825

39, 15.579,
197.452

46, 16.009, 21.413

47, 20.456, 22.003

39, 18.309,
197.123

48, 24.905, 22.593

38, 20.596,
196.851

50, 29.339, 23.180

51, 33.745, 23.760

38, 22.409,
196.636

52, 38.115, 24.331

38, 23.741,
196.478

38, 24.629,
196.370

Harmonies

Complementary

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



42, 1.234, 199.520



41, 1.257, 19.263

Rectangle

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



42, 1.234, 199.520



42, 1.234, 249.520



42, 1.234, 19.520



42, 1.234, 69.520

Sweetspot

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



42, 1.235, 199.471



54, 0.512, 200.089



42, 2.196, 143.916



28, 0.293, 200.167



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, 1.235, 199.471



54, 2.038, 199.341



42, 1.080, 254.142



21, 1.171, 199.308



43, 27.808, 196.302



87, 48.226, 196.297

Inverse Universe

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



41, 1.257, 19.263



53, 2.088, 19.398



42, 1.080, 73.047



20, 1.202, 19.434



22, 55.881, 37.329



51, 100.568, 39.983

Previews

White Background



This preview shows how the CIELCh color 42, 1.234, 199.520 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 42, 1.234, 199.520 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

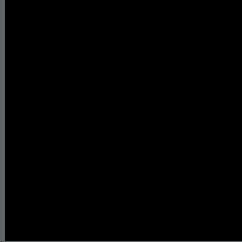
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

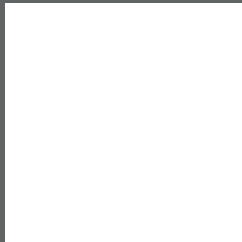
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 42, 1.234, 199.520

Background



This preview shows how black text looks on a background with the CIELCh color 42, 1.234, 199.520.



This preview shows how white text looks on a background with the CIELCh color 42, 1.234, 199.520.

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, 1.234, 199.520

Protanopia

42, 0.834, 19.115

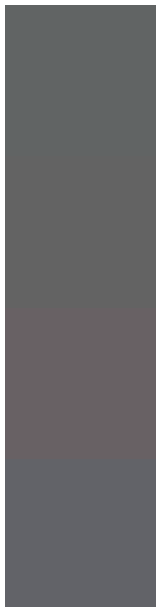
Deuteranopia

42, 5.598, 354.633



Tritanopia
42, 4.244, 285.364

Trichromacy



Original Color

42, 1.234, 199.520

Protanomaly

42, 0.006, 296.813

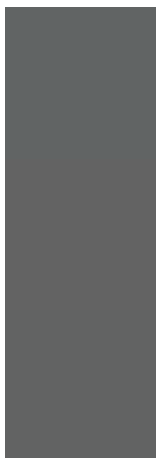
Deuteranomaly

42, 3.453, 348.165

Tritanomaly

42, 3.045, 282.973

Monochromacy



Original Color

42, 1.234, 199.520

Achromatopsia

42, 0.006, 296.813

Achromatomaly

42, 0.413, 200.154

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 1.234, 199.520 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(97, 100, 100)` looks like.

```
.text, #text, p{  
    color:rgb(97, 100, 100)  
}
```

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(97, 100, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 100, 100) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 1.234, 199.520 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(97, 100, 100) }
```

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

```
.border{ border-color:rgb(97, 100, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 100, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 100, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 100, 100);  
box-shadow:4px 4px 4px 4px rgb(97, 100,  
100) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 1.234, 199.520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 100, 100) }
```

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

```
.background{ background-color: rgb(97, 100,  
100) }
```

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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