

Converting Colors

CIELCh(13, 52.109, 41.002)

Have a look what the booklet for
CIELCh(13, 52.109, 41.002) contains.

CIELCh(14, 41.690, 32.564)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	18
<i>Color Blindness Simulation</i>	21
<i>CSS Examples</i>	24

Color

CIELCh(14, 41.690, 32.564)

Conversions

Conversions Part 1

Format	Color
Hex	510000
RGB	81, 0, 0
RGB Percent	32%, 0%, 0%
CMY	0.6821, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.68
HSL	0°, 100%, 16%
HSV	0°, 100%, 32%
XYZ	3.3814, 1.7298, 0.1188
YIQ	24.2190, 48.2760, 17.1720

Conversions

Conversions Part 2

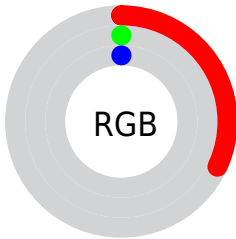
Format	Color
RYB	81, 0, 0
Decimal	5308416
CIELab	14.00, 35.14, 22.44
CIELCh	14, 41.690, 32.564
Yxy	1.7298, 0.6465, 0.3307
Android (android.graphics.Color)	4283498496 (0xFF510000)
YUV	24.2190, -11.9400, 49.7969
Hunter-Lab	13.1521, 22.8766, 8.6711

Details

The CIELCh color **14, 41.690, 32.564** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **31, 21.808, 196.386**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **34, 41.084, 32.649**, and **1, 6.850, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **14, 41.265, 32.352**, and if you desaturate by 10%, it is **15, 38.121, 31.937**.

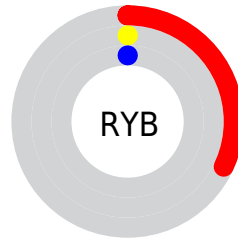
Distribution



Red (32%)

Green (0%)

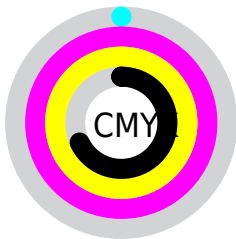
Blue (0%)



Red (32%)

Yellow (0%)

Blue (0%)

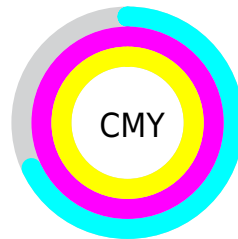


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (68%)



Cyan (68%)

Magenta (100%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 14, 41.690, 32.564 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 14, 41.690, 32.564 by changing the saturation by 10% instead.

 14, 41.690, 32.564

 14, 41.690, 32.564

 100, 41.690,
32.564

 4, 41.690, 32.564

 34, 41.690, 32.564

 0, 41.690, 32.564

 44, 41.690, 32.564

 54, 41.690, 32.564

 64, 41.690, 32.564

 74, 41.690, 32.564

 84, 41.690, 32.564

 94, 41.690, 32.564

■ 14, 41.690, 32.564

■ 14, 41.690, 32.564

■ 14, 41.265, 32.352

■ 15, 38.121, 31.937

■ 16, 34.715, 30.911

■ 18, 30.193, 28.512

■ 20, 25.394, 26.138

■ 22, 20.633, 24.244

■ 24, 16.019, 22.755

■ 27, 11.622, 21.587

■ 29, 7.482, 20.662

■ 32, 3.609, 19.902

Harmonies

Complementary

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



14, 41.690, 32.564



31, 21.808, 196.386

Rectangle

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



14, 41.690, 32.564



14, 41.690, 82.564



14, 41.690, 212.564



14, 41.690, 262.564

Sweetspot

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



14, 41.265, 32.352



34, 14.394, 21.694



17, 50.289, 328.233



16, 9.982, 21.960



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



14, 41.265, 32.352



20, 51.596, 36.276



21, 34.527, 62.479



15, 2.019, 19.810



48, 97.376, 40.000

Inverse Universe

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



31, 21.808, 196.386



40, 26.021, 196.386



16, 28.897, 279.695



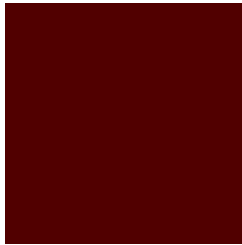
16, 1.921, 199.068



84, 46.665, 196.386

Previews

White Background



This preview shows how the CIELCh color 14, 41.690, 32.564 looks on a white background.

Color Contrast Check

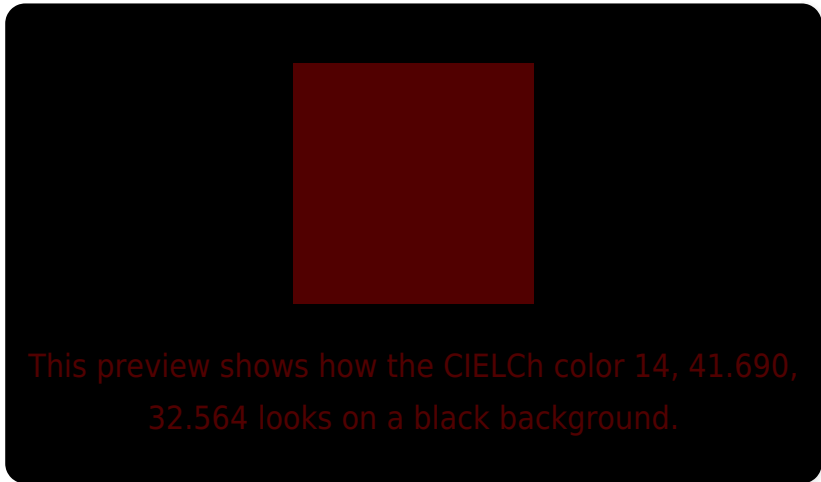
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

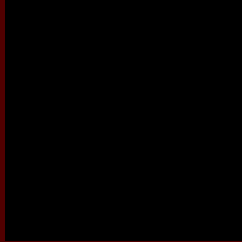
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 14, 41.690, 32.564

Background



This preview shows how black text looks on a background with the CIELCh color 14, 41.690, 32.564.

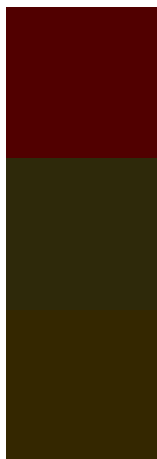


This preview shows how white text looks on a background with the CIELCh color 14, 41.690, 32.564.

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

14, 41.240, 32.339

Protanopia

16, 19.844, 96.982

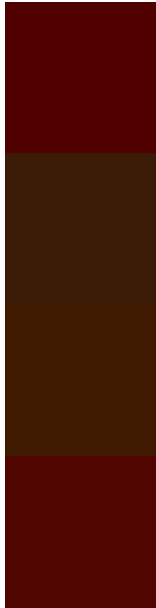
Deuteranopia

16, 23.935, 86.348



Tritanopia
15, 39.170, 35.880

Trichromacy



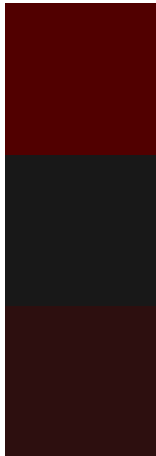
Original Color
14, 41.240, 32.339

Protanomaly
14, 23.290, 51.434

Deuteranomaly
14, 27.136, 51.815

Tritanomaly
14, 39.740, 34.469

Monochromacy



Original Color
14, 41.240, 32.339

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 16.777, 22.795

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 14, 41.690, 32.564 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(81, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(81, 0, 0)  
}
```


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(81, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 14, 41.690, 32.564 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(81, 0, 0) }
```

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

```
.border{ border-color:rgb(81, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(81, 0, 0); box-shadow:4px  
4px 4px 4px rgb(81, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 14, 41.690, 32.564 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 0, 0) }
```

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

```
.background{ background-color: rgb(81, 0,  
0) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor