

Converting Colors

CIELCh(15, 22.020, 83.962)

Have a look what the booklet for
CIELCh(15, 22.020, 83.962) contains.

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Color

CIELCh(15, 22.143, 85.142)

Conversions

Conversions Part 1

Format	Color
Hex	312400
RGB	49, 36, 0
RGB Percent	19%, 14%, 0%
CMY	0.8081, 0.8591, 1.0000
CMYK	0.00, 0.27, 1.00, 0.81
HSL	44°, 100%, 10%
HSV	44°, 100%, 19%
XYZ	1.8915, 1.9086, 0.2656
YIQ	35.7830, 19.3040, -8.4400

Conversions

Conversions Part 2

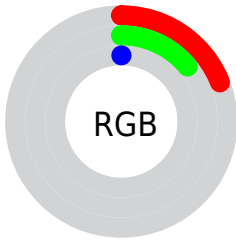
Format	Color
R_YB	18, 49, 0
Decimal	3220480
CIE Lab	15.00, 1.88, 22.06
CIE LCh	15, 22.143, 85.142
Yxy	1.9086, 0.4652, 0.4694
Android (android.graphics.Color)	4281410560 (0xFF312400)
YUV	35.7830, -17.6410, 11.5913
Hunter-Lab	13.8151, 0.2628, 8.5309

Details

The CIELCh color **15, 22.143, 85.142** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **5, 26.122, 289.518**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 22.129, 84.223**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 22.102, 85.114**, and if you desaturate by 10%, it is **15, 20.691, 86.189**.

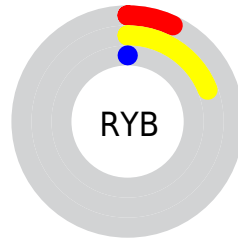
Distribution



Red (19%)

Green (14%)

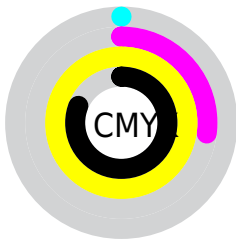
Blue (0%)



Red (7%)

Yellow (19%)

Blue (0%)

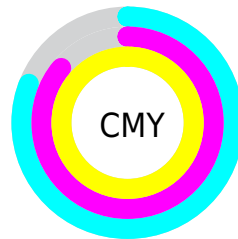


Cyan (0%)

Magenta (27%)

Yellow (100%)

Black (81%)



Cyan (81%)

Magenta (86%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 22.143, 85.142 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 15, 22.143, 85.142 by changing the saturation by 10% instead.

 15, 22.143, 85.142

 15, 22.143, 85.142

 100, 22.143,
85.142


 5, 22.143, 85.142

 35, 22.143, 85.142

 0, 22.143, 85.142

 45, 22.143, 85.142

 55, 22.143, 85.142

 65, 22.143, 85.142

 75, 22.143, 85.142

 85, 22.143, 85.142

 95, 22.143, 85.142

■ 15, 22.143, 85.142

■ 15, 22.143, 85.142

■ 15, 22.102, 85.114

■ 15, 20.691, 86.189

■ 16, 19.282, 87.432

■ 16, 17.623, 88.707

■ 17, 15.378, 89.861

■ 17, 12.813, 90.970

■ 18, 10.223, 92.057

■ 19, 7.635, 93.119

■ 19, 5.063, 94.155

■ 20, 2.515, 95.153

Harmonies

Complementary

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



15, 22.143, 85.142



5, 26.122, 289.518

Rectangle

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



15, 22.143, 85.142



15, 22.143, 135.142



15, 22.143, 265.142



15, 22.143, 315.142

Sweetspot

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



15, 22.102, 85.114



25, 9.543, 92.947



6, 25.574, 9.580



11, 6.567, 92.858



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



15, 22.102, 85.114



20, 29.160, 84.472



18, 28.890, 116.429



9, 1.435, 95.323



29, 38.922, 83.673



69, 73.764, 81.720

Inverse Universe

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



5, 26.122, 289.518



7, 34.966, 295.231



3, 32.496, 301.624



8, 1.446, 277.045



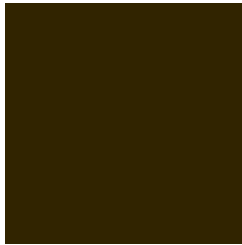
12, 46.634, 297.475



34, 96.563, 300.278

Previews

White Background



This preview shows how the CIE LCh color 15, 22.143, 85.142 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



This preview shows how the CIELCh color 15, 22.143, 85.142 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

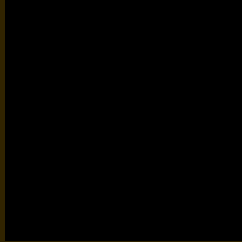
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 22.143, 85.142

Background



This preview shows how black text looks on a background with the CIELCh color 15, 22.143, 85.142.

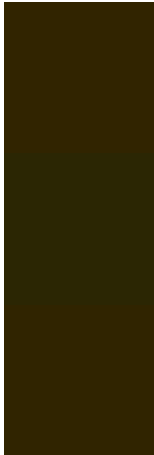


This preview shows how white text looks on a background with the CIELCh color 15, 22.143, 85.142.

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

15, 22.143, 85.142

Protanopia

15, 20.803, 97.350

Deuteranopia

15, 21.904, 86.587



Tritanopia
15, 9.342, 9.048

Trichromacy



Original Color
15, 22.143, 85.142

Protanomaly
15, 20.962, 92.543

Deuteranomaly
15, 21.904, 86.587

Tritanomaly
15, 12.005, 60.263

Monochromacy



Original Color
15, 22.143, 85.142

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 9.563, 90.942

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 22.143, 85.142 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, 36, 0)` looks like.

```
.text, #text, p{  
    color:rgb(49, 36, 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(49, 36, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 36, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 22.143, 85.142 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, 36, 0) }
```

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

```
.border{ border-color:rgb(49, 36, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 36, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 36, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 36, 0); box-shadow:4px  
4px 4px 4px rgb(49, 36, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 15, 22.143, 85.142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 36, 0) }
```

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

```
.background{ background-color: rgb(49, 36,  
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](#).

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