

Converting Colors

CIELCh(22, 23.797, 76.140)

Have a look what the booklet for
CIELCh(22, 23.797, 76.140) contains.

CIELCh(22, 23.698, 75.953)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(22, 23.698, 75.953)

Conversions

Conversions Part 1

Format	Color
Hex	463112
RGB	70, 49, 18
RGB Percent	27%, 19%, 7%
CMY	0.7264, 0.8087, 0.9302
CMYK	0.00, 0.30, 0.74, 0.73
HSL	36°, 59%, 17%
HSV	36°, 74%, 27%
XYZ	3.7058, 3.5154, 1.0469
YIQ	51.7450, 22.4670, -5.1890

Conversions

Conversions Part 2

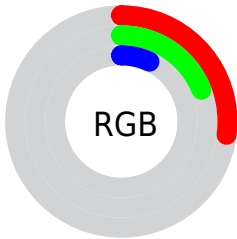
Format	Color
R_{YB}	53, 70, 18
Decimal	4600082
CIE Lab	22.00, 5.75, 22.99
CIE LCh	22, 23.698, 75.953
Yxy	3.5154, 0.4482, 0.4252
Android (android.graphics.Color)	4282790162 (0xFF463112)
YUV	51.7450, -16.6363, 16.0096
Hunter-Lab	18.7494, 2.4689, 9.8142

Details

The CIELCh color **22, 23.698, 75.953** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **15, 22.248, 279.525**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 23.618, 75.399**, and **2, 6.593, 29.976** is the 20% darker color. If you saturate the color by 10%, you get **21, 26.544, 74.336**, and if you desaturate by 10%, it is **23, 20.430, 77.316**.

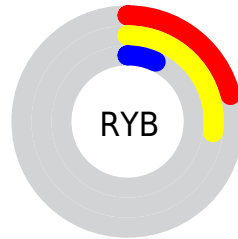
Distribution



Red (27%)

Green (19%)

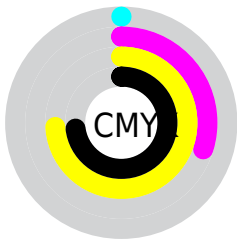
Blue (7%)



Red (21%)

Yellow (27%)

Blue (7%)

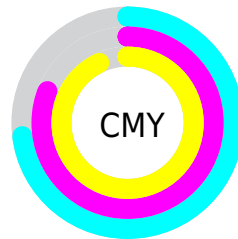


Cyan (0%)

Magenta (30%)

Yellow (74%)

Black (73%)



Cyan (73%)

Magenta (81%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 23.698, 75.953 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 22, 23.698, 75.953 by changing the saturation by 10% instead.

■ 22, 23.698, 75.953

■ 22, 23.698, 75.953

■ 100, 23.698,
75.953

■ 12, 23.698, 75.953

■ 42, 23.698, 75.953

■ 2, 23.698, 75.953

■ 52, 23.698, 75.953

■ 0, 23.698, 75.953

■ 62, 23.698, 75.953

■ 72, 23.698, 75.953

■ 82, 23.698, 75.953

■ 92, 23.698, 75.953

■ 22, 23.698, 75.953

■ 22, 23.698, 75.953

■ 21, 26.544, 74.336

■ 23, 20.430, 77.316

■ 20, 28.766, 72.460

■ 24, 17.109, 78.609

■ 20, 29.994, 71.545

■ 25, 13.808, 79.861

■ 26, 10.566, 81.082

■ 27, 7.400, 82.273

■ 28, 4.317, 83.427

■ 29, 1.316, 84.490

■ 30, 1.605, 265.782

■ 31, 4.452, 266.791

Harmonies

Complementary

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



22, 23.698, 75.953



15, 22.248, 279.525

Rectangle

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



22, 23.698, 75.953



22, 23.698, 125.953



22, 23.698, 255.953



22, 23.698, 305.953

Sweetspot

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



22, 23.698, 75.957



36, 8.331, 82.456



15, 27.006, 357.801



17, 5.524, 82.339



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



22, 23.698, 75.957



28, 34.998, 73.101



28, 30.985, 108.341



13, 1.678, 84.075



29, 41.211, 71.109



65, 75.937, 68.571

Inverse Universe

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



15, 22.248, 279.525



18, 33.715, 285.524



9, 37.826, 302.424



13, 1.669, 266.154



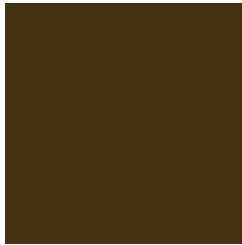
18, 40.884, 289.604



43, 80.647, 292.721

Previews

White Background



This preview shows how the CIE LCh color 22, 23.698, 75.953 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 CIE LCh color 22, 23.698, 75.953 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

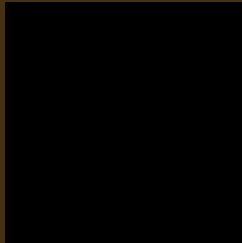
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 23.698, 75.953

Background



This preview shows how black text looks on a background with the CIELCh color 22, 23.698, 75.953.

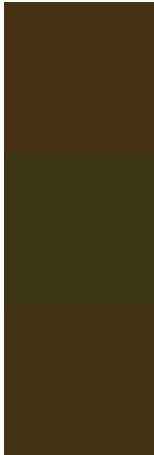


This preview shows how white text looks on a background with the CIELCh color 22, 23.698, 75.953.

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

22, 23.698, 75.953

Protanopia

22, 22.117, 96.638

Deuteranopia

22, 23.345, 82.803



Tritanopia
22, 12.789, 13.374

Trichromacy



Original Color
22, 23.698, 75.953

Protanomaly
22, 21.899, 87.779

Deuteranomaly
22, 23.589, 81.588

Tritanomaly
22, 14.041, 46.536

Monochromacy



Original Color
22, 23.698, 75.953

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 8.191, 82.952

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 23.698, 75.953 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(70, 49, 18)` looks like.

```
.text, #text, p{  
    color:rgb(70, 49, 18)  
}
```

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(70, 49, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 49, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 23.698, 75.953 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(70, 49, 18) }
```

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

```
.border{ border-color:rgb(70, 49, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 49, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 49, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 49, 18);  
box-shadow:4px 4px 4px 4px rgb(70, 49, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 23.698, 75.953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 49, 18) }
```

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

```
.background{ background-color: rgb(70, 49,  
18) }
```

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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