

Converting Colors

CIELCh(22, 4.332, 85.022)

Have a look what the booklet for
CIELCh(22, 4.332, 85.022) contains.

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Color

CIELCh(22, 4.458, 83.451)

Conversions

Conversions Part 1

Format	Color
Hex	38342E
RGB	56, 52, 46
RGB Percent	22%, 20%, 18%
CMY	0.7797, 0.7954, 0.8190
CMYK	0.00, 0.07, 0.18, 0.78
HSL	36°, 10%, 20%
HSV	36°, 18%, 22%
XYZ	3.3725, 3.5154, 3.1027
YIQ	52.5120, 4.3100, -1.0180

Conversions

Conversions Part 2

Format	Color
R _Y B	53, 56, 46
Decimal	3683374
CIE Lab	22.00, 0.51, 4.43
CIE LCh	22, 4.458, 83.451
Yxy	3.5154, 0.3376, 0.3519
Android (android.graphics.Color)	4281873454 (0xFF38342E)
YUV	52.5120, -3.2104, 3.0590
Hunter-Lab	18.7494, -0.7043, 3.3131

Details

The CIELCh color **22, 4.458, 83.451** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **21, 4.390, 267.579**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 4.193, 78.871**, and **2, 2.935, 74.909** is the 20% darker color. If you saturate the color by 10%, you get **21, 7.054, 82.343**, and if you desaturate by 10%, it is **23, 1.929, 84.528**.

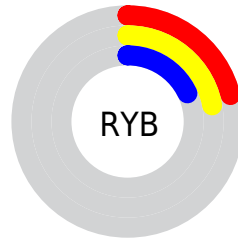
Distribution



Red (22%)

Green (20%)

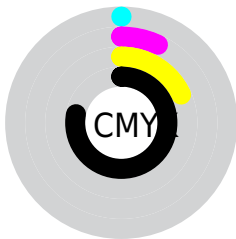
Blue (18%)



Red (21%)

Yellow (22%)

Blue (18%)



Cyan (0%)

Magenta (7%)

Yellow (18%)

Black (78%)



Cyan (78%)

Magenta (80%)

Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 4.458, 83.451 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, 4.458, 83.451 by changing the saturation by 10% instead.

■ 22, 4.458, 83.451 ■ 22, 4.458, 83.451

■ 100, 4.458, 83.451 ■ 12, 4.458, 83.451

■ 42, 4.458, 83.451 ■ 2, 4.458, 83.451

■ 52, 4.458, 83.451 ■ 0, 4.458, 83.451

■ 62, 4.458, 83.451

■ 72, 4.458, 83.451

■ 82, 4.458, 83.451

■ 92, 4.458, 83.451

■ 22, 4.458, 83.451 ■ 22, 4.458, 83.451

■ 21, 7.054, 82.343 ■ 23, 1.929, 84.528

■ 20, 9.714, 81.192	■ 24, 0.537, 265.880
■ 19, 12.432, 80.013	■ 25, 2.943, 266.735
■ 19, 15.191, 78.804	■ 26, 5.293, 267.716
■ 18, 17.950, 77.548	■ 27, 7.591, 268.671
■ 17, 20.211, 75.919	■ 28, 9.842, 269.592
■ 16, 21.886, 73.907	■ 28, 12.049, 270.475
■ 16, 23.515, 72.112	■ 29, 14.218, 271.321
■ 15, 23.873, 71.753	■ 30, 16.350, 272.129

Harmonies

Complementary

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



22, 4.458, 83.451



21, 4.390, 267.579

Rectangle

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



22, 4.458, 83.451



22, 4.458, 133.451



22, 4.458, 263.451



22, 4.458, 313.451

Sweetspot

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



22, 4.458, 83.463



31, 1.547, 84.775



20, 5.453, 350.810



15, 1.066, 84.754



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



22, 4.458, 83.463



29, 6.651, 82.992



23, 6.640, 112.873



10, 1.367, 84.476



27, 38.616, 71.632



63, 73.944, 68.987

Inverse Universe

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



21, 4.390, 267.579



27, 6.519, 268.160



19, 6.871, 295.476



9, 1.360, 266.416



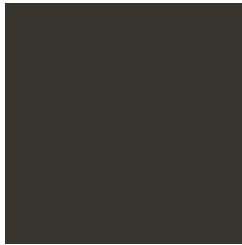
16, 38.494, 289.418



41, 78.937, 292.891

Previews

White Background



This preview shows how the CIELCh color 22, 4.458, 83.451 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, 4.458, 83.451 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

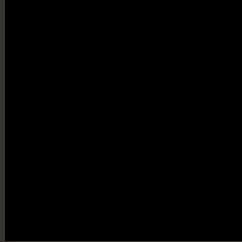
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 4.458, 83.451

Background



This preview shows how black text looks on a background with the CIELCh color 22, 4.458, 83.451.



This preview shows how white text looks on a background with the CIELCh color 22, 4.458, 83.451.

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, 4.458, 83.451

Protanopia

22, 4.769, 97.409

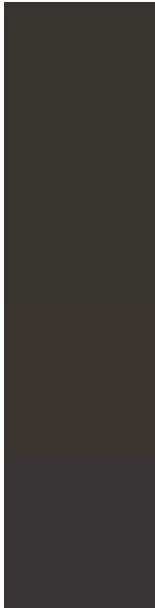
Deuteranopia

22, 5.553, 56.878



Tritanopia
22, 3.870, 336.263

Trichromacy



Original Color

22, 4.458, 83.451

Protanomaly

22, 4.769, 97.409

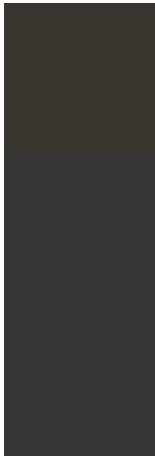
Deuteranomaly

22, 5.161, 60.166

Tritanomaly

22, 2.896, 6.572

Monochromacy



Original Color

22, 4.458, 83.451

Achromatopsia

22, 0.004, 296.813

Achromatomaly

22, 1.410, 90.480

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 4.458, 83.451 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(56, 52, 46)` looks like.

```
.text, #text, p{  
    color:rgb(56, 52, 46)  
}
```

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(56, 52, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 52, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 4.458, 83.451 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(56, 52, 46) }
```

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

```
.border{ border-color:rgb(56, 52, 46) }
```

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

Here you see how a box with a 4 pixel rgb(56, 52, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 52, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 52, 46);  
box-shadow:4px 4px 4px 4px rgb(56, 52, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 4.458, 83.451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 52, 46) }
```

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

```
.background{ background-color: rgb(56, 52,  
46) }
```

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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