

# Converting Colors

CIELCh(22, 37.582, 139.377)

Have a look what the booklet for  
CIELCh(22, 37.582, 139.377)  
contains.

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# Color

**CIELCh(22, 37.829, 139.296)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	073E0C
RGB	7, 62, 12
RGB Percent	3%, 24%, 5%
CMY	0.9726, 0.7569, 0.9530
CMYK	0.89, 0.00, 0.81, 0.76
HSL	125°, 80%, 14%
HSV	125°, 89%, 24%
XYZ	1.8756, 3.5154, 0.9271
YIQ	39.8550, -16.7300, -27.2100

# Conversions

## Conversions Part 2

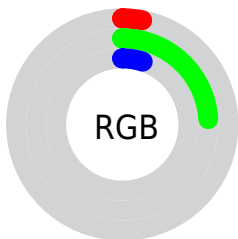
<b>Format</b>	<b>Color</b>
<b>RYB</b>	7, 57, 62
Decimal	474636
CIELab	22.00, -28.68, 24.67
CIELCh	22, 37.829, 139.296
Yxy	3.5154, 0.2969, 0.5564
Android (android.graphics.Color)	4278664716 (0xFF073E0C)
YUV	39.8550, -13.7325, -28.8138
Hunter-Lab	18.7494, -14.9552, 10.1929

# Details

The CIELCh color **22, 37.829, 139.296** is a dark color, and the websafe version is hex **003300**. A complement of this color would be **12, 36.408, 331.247**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 37.391, 139.218**, and **3, 6.529, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **22, 40.600, 138.759**, and if you desaturate by 10%, it is **22, 34.686, 140.394**.

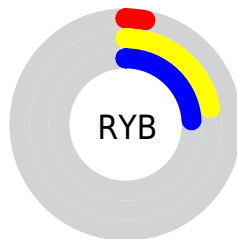
# Distribution



Red (3%)

Green (24%)

Blue (5%)



Red (3%)

Yellow (22%)

Blue (24%)

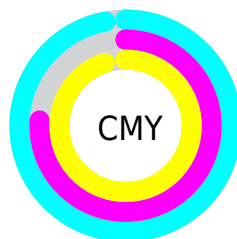


Cyan (89%)

Magenta (0%)

Yellow (81%)

Black (76%)



Cyan (97%)

Magenta (76%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 37.829, 139.296 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, 37.829, 139.296 by changing the saturation by 10% instead.




 22, 37.829,  
139.296


 22, 37.829,  
139.296

 100, 37.829,  
139.296


 12, 37.829,  
139.296


 42, 37.829,  
139.296


 2, 37.829, 139.296

 52, 37.829,  
139.296

 0, 37.829, 139.296

 62, 37.829,  
139.296

 72, 37.829,  
139.296

 82, 37.829,  
139.296

 92, 37.829,

139.296

■ 22, 37.829,  
139.296

■ 22, 37.829,  
139.296

■ 22, 40.600,  
138.759

■ 22, 34.686,  
140.394

■ 22, 40.951,  
138.707

■ 22, 31.060,  
141.544

■ 23, 27.030,  
142.627

■ 23, 22.700,  
143.615

■ 24, 18.164,  
144.499

■ 24, 13.505,  
145.280

■ 25, 8.791, 145.966

■ 26, 4.078, 146.576

■ 26, 0.591, 326.856

# Harmonies

# Complementary

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



22, 37.829, 139.296



12, 36.408, 331.247

# Rectangle

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



22, 37.829, 139.296



22, 37.829, 189.296



22, 37.829, 319.296



22, 37.829, 9.296

# Sweetspot

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



22, 37.829, 139.297



32, 15.955, 145.315



25, 32.018, 107.906



15, 10.567, 145.245



69, 0.009, 296.813



16, 0.003, 296.813





# Same Dimension

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



22, 37.829, 139.297



29, 50.100, 137.842



22, 25.423, 158.499



11, 2.563, 146.595



34, 55.715, 137.588



77, 106.068, 136.689



# Inverse Universe

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



12, 36.408, 331.247



17, 47.314, 331.865



11, 27.903, 0.831



10, 2.569, 327.389



20, 52.227, 331.945

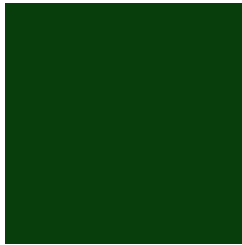


52, 96.776, 332.275



# Previews

## White Background



This preview shows how the CIELCh color 22, 37.829, 139.296 looks on a white background.

## Color Contrast Check

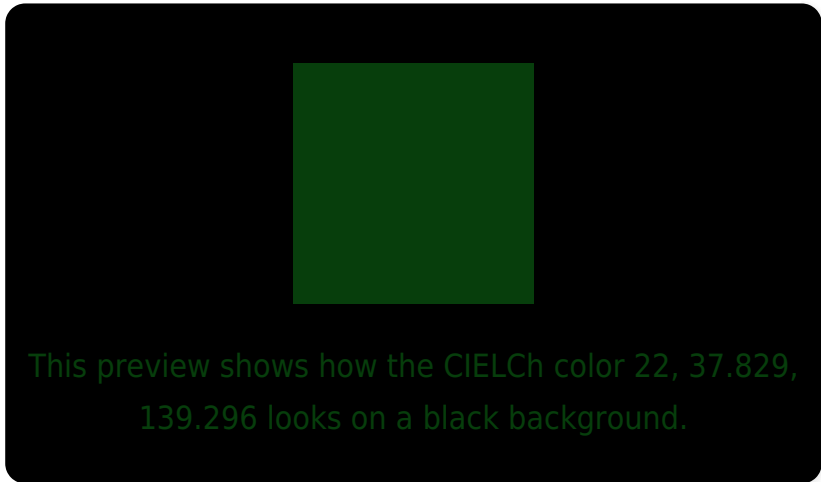
Large Text (above 18pt) WCAG AA ✓ Pass

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

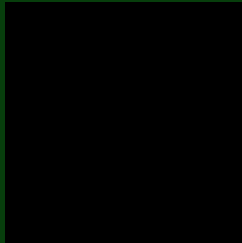
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 22, 37.829, 139.296**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 22, 37.829, 139.296.



This preview shows how white text looks on a background with the CIELCh color 22, 37.829, 139.296.

# 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, 37.829, 139.296

**Protanopia**  
22, 26.706, 95.791

**Deuteranopia**  
22, 22.806, 82.437





**Tritanopia**  
22, 12.077, 210.389

# Trichromacy



**Original Color**  
22, 37.829, 139.296

**Protanomaly**  
21, 28.640, 119.952

**Deuteranomaly**  
21, 24.531, 115.857

**Tritanomaly**  
22, 19.106, 164.274

# Monochromacy



**Original Color**  
22, 37.829, 139.296

**Achromatopsia**  
16, 0.003, 296.813

**Achromatomaly**  
18, 15.653, 144.693

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 22, 37.829, 139.296 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(7, 62, 12)` looks like.

```
.text, #text, p{  
    color:rgb(7, 62, 12)  
}
```

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(7, 62, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(7, 62, 12) }
```

## Border

The CSS property to change the border of an element to CIELCh 22, 37.829, 139.296 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(7, 62, 12) }
```

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

```
.border{ border-color:rgb(7, 62, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(7, 62, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(7, 62, 12); -webkit-box-shadow:4px  
4px 4px 4px rgb(7, 62, 12); box-shadow:4px  
4px 4px 4px rgb(7, 62, 12) }
```

# Background

The CSS property to change the background color of an element to CIELCh 22, 37.829, 139.296 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(7, 62, 12) }
```

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

```
.background{ background-color: rgb(7, 62,  
12) }
```

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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