

Converting Colors

CIELCh(1, 1.824, 36.661)

Have a look what the booklet for
CIELCh(1, 1.824, 36.661) contains.

CIELCh(1, 1.977, 31.169)	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(1, 1.977, 31.169)

Conversions

Conversions Part 1

Format	Color
Hex	090201
RGB	9, 2, 1
RGB Percent	4%, 1%, 0%
CMY	0.9638, 0.9912, 0.9952
CMYK	0.00, 0.76, 0.87, 0.96
HSL	8°, 76%, 2%
HSV	8°, 87%, 4%
XYZ	0.1465, 0.1107, 0.0490
YIQ	3.9790, 4.4930, 1.1730

Conversions

Conversions Part 2

Format	Color
RYB	9, 2, 1
Decimal	590337
CIELab	1.00, 1.69, 1.02
CIELCh	1, 1.977, 31.169
Yxy	0.1107, 0.4785, 0.3615
Android (android.graphics.Color)	4278780417 (0xFF090201)
YUV	3.9790, -1.4686, 4.4034
Hunter-Lab	3.3273, 2.0377, 1.4559

Details

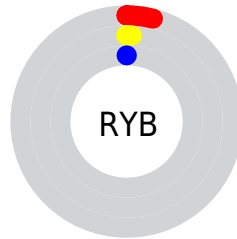
The CIELCh color **1, 1.977, 31.169** is a dark color, and the websafe version is hex **000000**. A complement of this color would be **2, 1.977, 211.197**, and the grayscale version is **1, 0.000, 296.812**.

A 20% lighter version of the original color is **21, 2.369, 19.803**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **1, 2.205, 31.175**, and if you desaturate by 10%, it is **1, 1.749, 31.169**.

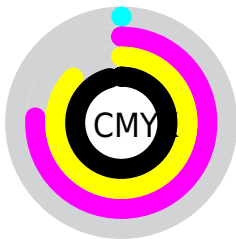
Distribution



- Red (4%)
- Green (1%)
- Blue (0%)



- Red (4%)
- Yellow (1%)
- Blue (0%)



- Cyan (0%)
- Magenta (76%)
- Yellow (87%)
- Black (96%)



- Cyan (96%)
- Magenta (99%)
- Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 1, 1.977, 31.169 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 1, 1.977, 31.169 by changing the saturation by 10% instead.

■ 1, 1.977, 31.169

■ 1, 1.977, 31.169

■ 91, 1.977, 31.169

■ 0, 1.977, 31.169

■ 21, 1.977, 31.169

■ 31, 1.977, 31.169

■ 41, 1.977, 31.169

■ 51, 1.977, 31.169

■ 61, 1.977, 31.169

■ 71, 1.977, 31.169

■ 81, 1.977, 31.169

■ 1, 1.977, 31.169

■ 1, 1.977, 31.169

■ 1, 2.205, 31.175

■ 1, 1.749, 31.169

■ 1, 2.281, 31.175

■ 1, 1.521, 31.166

■ 2, 1.293, 31.161

■ 2, 1.064, 31.153

■ 2, 0.836, 31.142

■ 2, 0.608, 31.123

■ 2, 0.380, 31.080

■ 2, 0.152, 30.907

■ 3, 0.076, 211.767

Harmonies

Complementary

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



1, 1.977, 31.169



2, 1.977, 211.197

Rectangle

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



1, 1.977, 31.169



1, 1.977, 81.169



1, 1.977, 211.169



1, 1.977, 261.169

Sweetspot

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



1, 1.977, 31.172



3, 0.878, 30.323



1, 3.635, 327.780



2, 0.586, 31.133



56, 0.007, 296.813



2, 0.001, 296.812

Same Dimension

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



1, 1.977, 31.172



1, 3.210, 30.956



2, 2.153, 86.912



1, 0.126, 31.003



12, 33.543, 34.636



42, 83.822, 41.554

Inverse Universe

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



2, 1.977, 211.197



2, 3.175, 212.460



1, 2.153, 266.923



1, 0.126, 211.366



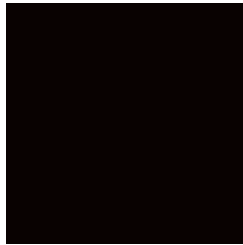
23, 17.259, 216.584



65, 36.088, 219.451

Previews

White Background



This preview shows how the CIELCh color 1, 1.977, 31.169 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

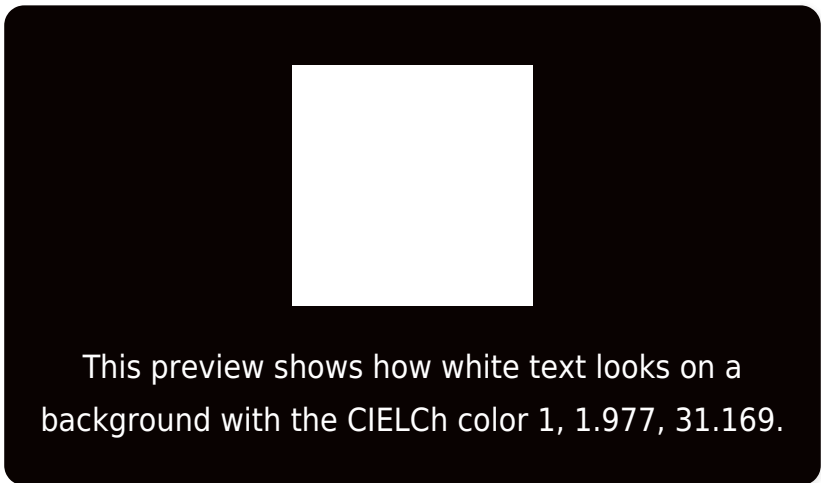
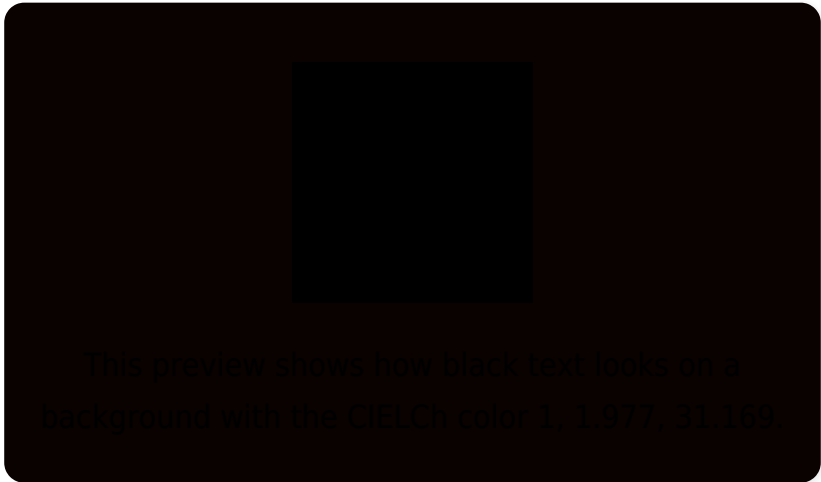
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 1, 1.977, 31.169

Background



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

1, 1.977, 31.169

Protanopia

1, 1.237, 97.226

Deuteranopia

1, 2.031, 102.332



Tritanopia

1, 1.941, 19.400

Trichromacy



Original Color

1, 1.977, 31.169

Protanomaly

1, 1.151, 63.883

Deuteranomaly

1, 1.805, 82.733

Tritanomaly

1, 1.941, 19.400

Monochromacy



Original Color

1, 1.977, 31.169

Achromatopsia

1, 0.000, 296.812

Achromatomaly

1, 0.832, 19.388

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 1, 1.977, 31.169 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(9, 2, 1)` looks like.

```
.text, #text, p{  
    color:rgb(9, 2, 1)  
}
```

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(9, 2, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 2, 1) }
```

Border

The CSS property to change the border of an element to CIELCh 1, 1.977, 31.169 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(9, 2, 1) }
```

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

```
.border{ border-color:rgb(9, 2, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 2, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 2, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 2, 1); box-shadow:4px  
4px 4px 4px rgb(9, 2, 1) }
```

Background

The CSS property to change the background color of an element to CIELCh 1, 1.977, 31.169 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 2, 1) }
```

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

```
.background{ background-color: rgb(9, 2, 1)  
}
```

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