

# Converting Colors

CIELCh(21, 1.115, 53.006)

Have a look what the booklet for  
CIELCh(21, 1.115, 53.006) contains.

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# Color

**CIELCh(21, 1.152, 55.150)**

# Conversions

## Conversions Part 1

Format	Color
Hex	343231
RGB	52, 50, 49
RGB Percent	20%, 20%, 19%
CMY	0.7957, 0.8035, 0.8074
CMYK	0.00, 0.04, 0.06, 0.80
HSL	20°, 3%, 20%
HSV	20°, 6%, 20%
XYZ	3.1227, 3.2451, 3.3786
YIQ	50.4840, 1.5130, 0.1130

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">52, 51, 49</a>
Decimal	<a href="#">3420721</a>
CIELab	<a href="#">21.00, 0.66, 0.95</a>
CIELCh	<a href="#">21, 1.152, 55.150</a>
Yxy	<a href="#">3.2451, 0.3204, 0.3330</a>
Android (android.graphics.Color)	<a href="#">4281610801 (0xFF343231)</a>
YUV	<a href="#">50.4840, -0.7316, 1.3295</a>
Hunter-Lab	<a href="#">18.0142, -0.5821, 1.4900</a>

# Details

The CIELCh color **21, 1.152, 55.150** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **21, 1.128, 236.317**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 1.028, 55.190**, and **1, 1.151, 63.886** is the 20% darker color. If you saturate the color by 10%, you get **20, 3.250, 54.651**, and if you desaturate by 10%, it is **22, 0.828, 236.263**.

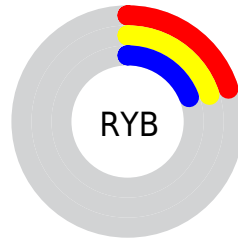
# Distribution



Red (20%)

Green (20%)

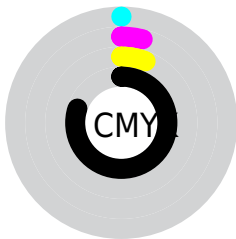
Blue (19%)



Red (20%)

Yellow (20%)

Blue (19%)



Cyan (0%)

Magenta (4%)

Yellow (6%)

Black (80%)



Cyan (80%)

Magenta (80%)

Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 1.152, 55.150 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 21, 1.152, 55.150 by changing the saturation by 10% instead.



■ 21, 1.152, 55.150      ■ 21, 1.152, 55.150

100, 1.152, 55.150      ■ 11, 1.152, 55.150

■ 41, 1.152, 55.150      ■ 1, 1.152, 55.150

■ 51, 1.152, 55.150      ■ 0, 1.152, 55.150

■ 61, 1.152, 55.150

■ 71, 1.152, 55.150

■ 81, 1.152, 55.150

■ 91, 1.152, 55.150

■ 21, 1.152, 55.150      ■ 21, 1.152, 55.150

■ 20, 3.250, 54.651      ■ 22, 0.828, 236.263

18, 5.477, 54.056	24, 2.701, 236.789
17, 7.844, 53.491	25, 4.477, 237.453
16, 10.357, 52.975	26, 6.167, 238.133
15, 13.019, 52.520	28, 7.779, 238.812
14, 15.683, 51.723	29, 9.323, 239.484
13, 17.914, 49.649	30, 10.805, 240.146
12, 19.801, 46.881	32, 12.232, 240.793
11, 21.656, 44.660	33, 13.609, 241.424

# Harmonies

# Complementary

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



21, 1.152, 55.150



21, 1.128, 236.317

# Rectangle

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



21, 1.152, 55.150



21, 1.152, 105.150



21, 1.152, 235.150



21, 1.152, 285.150

# Sweetspot

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



21, 1.152, 55.195



29, 0.499, 55.146



21, 1.956, 335.933



14, 0.286, 55.093



67, 0.008, 296.813



14, 0.003, 296.813



# Same Dimension

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



21, 1.152, 55.195



28, 1.778, 55.124



21, 1.691, 101.774



8, 0.870, 55.163



20, 39.648, 49.096



51, 82.431, 48.773





# Inverse Universe

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



21, 1.128, 236.317



28, 1.728, 236.404



21, 1.708, 282.908



9, 0.849, 236.357



23, 23.147, 258.008

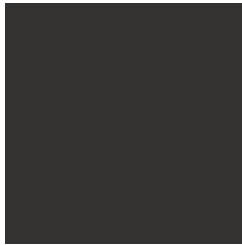


57, 46.153, 262.728



# Previews

## White Background



This preview shows how the CIELCh color 21, 1.152, 55.150 looks on a white background.

## Color Contrast Check

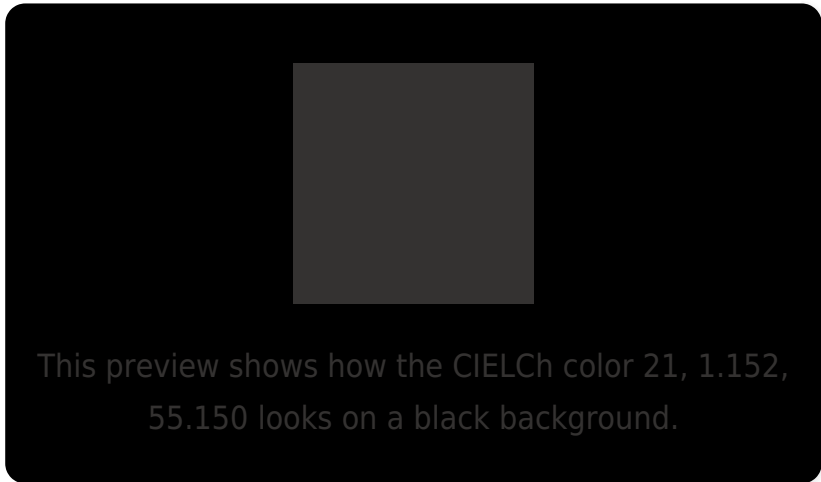
Large Text (above 18pt) WCAG AA ✓ Pass

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

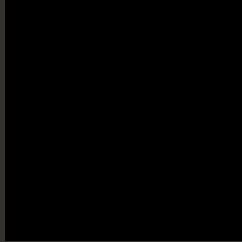
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

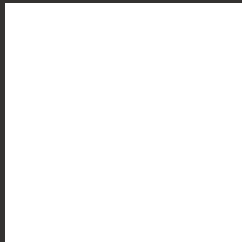
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 21, 1.152, 55.150

## Background



This preview shows how black text looks on a background with the CIELCh color 21, 1.152, 55.150.



This preview shows how white text looks on a background with the CIELCh color 21, 1.152, 55.150.

# 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

21, 1.152, 55.150

### Protanopia

21, 1.152, 55.150

### Deuteranopia

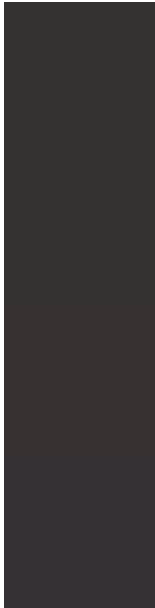
21, 3.334, 20.027



**Tritanopia**  
21, 3.293, 324.759



# Trichromacy



## Original Color

21, 1.152, 55.150

## Protanomaly

21, 1.152, 55.150

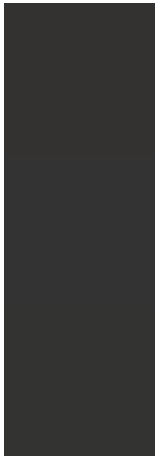
## Deuteranomaly

21, 2.850, 19.917

## Tritanomaly

21, 2.765, 332.704

# Monochromacy



## Original Color

21, 1.152, 55.150

## Achromatopsia

21, 0.004, 296.813

## Achromatomaly

21, 0.670, 109.985

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 21, 1.152, 55.150 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(52, 50, 49)` looks like.

```
.text, #text, p{  
    color:rgb(52, 50, 49)  
}
```

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(52, 50, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 50, 49) }
```

## Border

The CSS property to change the border of an element to CIELCh 21, 1.152, 55.150 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(52, 50, 49) }
```

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

```
.border{ border-color:rgb(52, 50, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(52, 50, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 50, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 50, 49);  
box-shadow:4px 4px 4px 4px rgb(52, 50, 49)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 21, 1.152, 55.150 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 50, 49) }
```

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

```
.background{ background-color: rgb(52, 50,  
49) }
```

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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