

Converting Colors

CIELCh(21, 3.617, 120.208)

Have a look what the booklet for
CIELCh(21, 3.617, 120.208) contains.

CIELCh(21, 3.402, 117.443)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(21, 3.402, 117.443)

Conversions

Conversions Part 1

Format	Color
Hex	32332E
RGB	50, 51, 46
RGB Percent	20%, 20%, 18%
CMY	0.8039, 0.7999, 0.8195
CMYK	0.02, 0.00, 0.10, 0.80
HSL	72°, 5%, 19%
HSV	72°, 10%, 20%
XYZ	2.9943, 3.2451, 3.0551
YIQ	50.1310, 1.0090, -1.7670

Conversions

Conversions Part 2

Format	Color
RYB	46, 51, 47
Decimal	3289902
CIELab	21.00, -1.57, 3.02
CIElCh	21, 3.402, 117.443
Yxy	3.2451, 0.3222, 0.3491
Android (android.graphics.Color)	4281479982 (0xFF32332E)
YUV	50.1310, -2.0366, -0.1149
Hunter-Lab	18.0142, -1.8547, 2.5548

Details

The CIELCh color **21, 3.402, 117.443** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 3.466, 298.578**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 3.055, 117.674**, and **1, 2.314, 138.813** is the 20% darker color. If you saturate the color by 10%, you get **21, 6.865, 116.875**, and if you desaturate by 10%, it is **21, 0.072, 297.950**.

Distribution



Red (20%)

Green (20%)

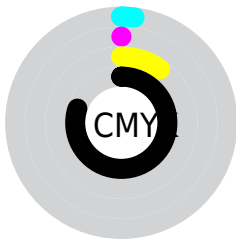
Blue (18%)



Red (18%)

Yellow (20%)

Blue (18%)



Cyan (2%)

Magenta (0%)

Yellow (10%)

Black (80%)



Cyan (80%)

Magenta (80%)

Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 3.402, 117.443 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, 3.402, 117.443 by changing the saturation by 10% instead.

■ 21, 3.402, 117.443

■ 21, 3.402, 117.443

■ 100, 3.402,
117.443

■ 11, 3.402, 117.443

■ 41, 3.402, 117.443

■ 1, 3.402, 117.443

■ 51, 3.402, 117.443

■ 0, 3.402, 117.443

■ 61, 3.402, 117.443

■ 71, 3.402, 117.443

■ 81, 3.402, 117.443

■ 91, 3.402, 117.443

■ 21, 3.402, 117.443

■ 21, 3.402, 117.443

■ 21, 6.865, 116.875

■ 21, 0.072, 297.950

■ 21, 10.298,
116.296

■ 22, 3.548, 298.556

■ 20, 13.680,
115.725

■ 22, 7.016, 299.080

■ 20, 16.978,
115.178

■ 22, 10.468,
299.580

■ 20, 20.148,
114.677

■ 22, 13.901,
300.055

■ 20, 23.115,
114.267

■ 23, 17.309,
300.503

■ 20, 25.564,
114.211

■ 23, 20.690,
300.927

■ 20, 27.679,
114.358

■ 24, 24.040,
301.325

■ 19, 29.802,
114.508

■ 24, 27.358,
301.698

Harmonies

Complementary

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



21, 3.402, 117.443



19, 3.466, 298.578

Rectangle

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



21, 3.402, 117.443



21, 3.402, 167.443



21, 3.402, 297.443



21, 3.402, 347.443

Sweetspot

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



21, 3.403, 117.451



28, 1.295, 117.829



20, 2.029, 39.217



13, 0.961, 117.805



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



21, 3.403, 117.451



28, 5.188, 117.289



21, 3.773, 135.403



9, 1.916, 117.554



35, 46.089, 113.939



81, 88.019, 114.832

Inverse Universe

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



19, 3.466, 298.578



25, 5.308, 298.759



19, 3.801, 316.057



8, 1.945, 298.418



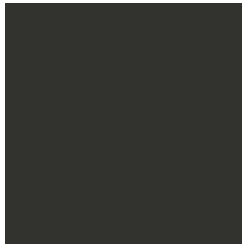
8, 60.784, 307.796



28, 116.702, 307.190

Previews

White Background



This preview shows how the CIELCh color 21, 3.402, 117.443 looks on a white background.

Color Contrast Check

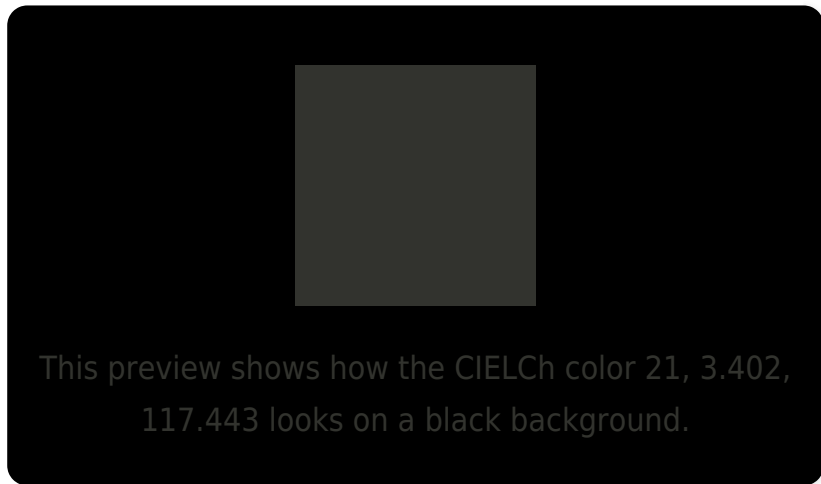
Large Text (above 18pt) WCAG AA ✓ Pass

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

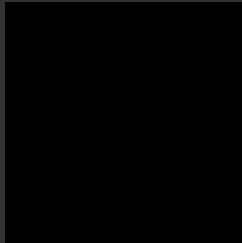
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

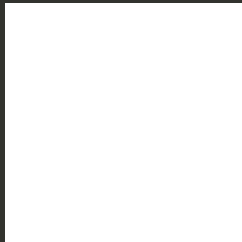
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 21, 3.402, 117.443

Background



This preview shows how black text looks on a background with the CIELCh color 21, 3.402, 117.443.

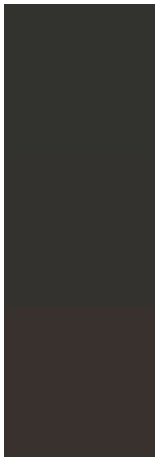


This preview shows how white text looks on a background with the CIELCh color 21, 3.402, 117.443.

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, 3.402, 117.443

Protanopia

21, 2.856, 89.892

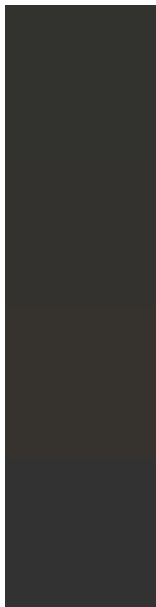
Deuteranopia

21, 4.392, 47.307



Tritanopia
21, 2.752, 300.303

Trichromacy



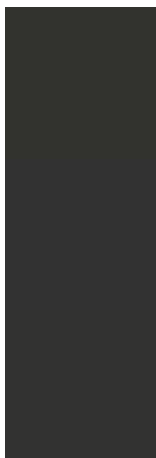
Original Color
21, 3.402, 117.443

Protanomaly
21, 2.736, 99.456

Deuteranomaly
21, 3.310, 73.847

Tritanomaly
21, 0.828, 324.412

Monochromacy



Original Color
21, 3.402, 117.443

Achromatopsia
21, 0.004, 296.813

Achromatomaly
21, 0.672, 109.983

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 3.402, 117.443 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(50, 51, 46)` looks like.

```
.text, #text, p{  
    color:rgb(50, 51, 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(50, 51, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 51, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 3.402, 117.443 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(50, 51, 46) }
```

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

```
.border{ border-color:rgb(50, 51, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 51, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 51, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 51, 46);  
box-shadow:4px 4px 4px 4px rgb(50, 51, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 3.402, 117.443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 51, 46) }
```

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

```
.background{ background-color: rgb(50, 51,  
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](#).

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