

Converting Colors

CIE LCh(22, 3.321, 18.352)

Have a look what the booklet for
CIELCh(22, 3.321, 18.352) contains.

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Color

CIELCh(22, 3.312, 20.003)

Conversions

Conversions Part 1

Format	Color
Hex	3A3333
RGB	58, 51, 51
RGB Percent	23%, 20%, 20%
CMY	0.7723, 0.7997, 0.7997
CMYK	0.00, 0.12, 0.12, 0.77
HSL	0°, 6%, 21%
HSV	0°, 12%, 23%
XYZ	3.5354, 3.5154, 3.6325
YIQ	53.0930, 4.1720, 1.4840

Conversions

Conversions Part 2

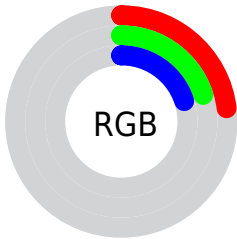
Format	Color
R_{YB}	58, 51, 51
Decimal	3814195
CIE Lab	22.00, 3.11, 1.13
CIE LCh	22, 3.312, 20.003
Yxy	3.5154, 0.3309, 0.3291
Android (android.graphics.Color)	4282004275 (0xFF3A3333)
YUV	53.0930, -1.0318, 4.3034
Hunter-Lab	18.7494, 0.8465, 1.6377

Details

The CIELCh color **22, 3.312, 20.003** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **24, 3.102, 198.933**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 3.380, 19.748**, and **2, 3.347, 19.398** is the 20% darker color. If you saturate the color by 10%, you get **20, 6.266, 20.746**, and if you desaturate by 10%, it is **24, 0.547, 19.104**.

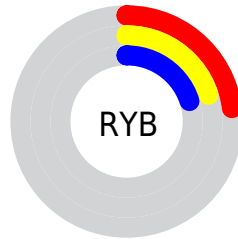
Distribution



 Red (23%)

 Green (20%)

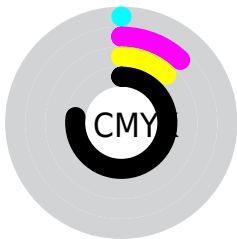
 Blue (20%)



 Red (23%)

 Yellow (20%)

 Blue (20%)

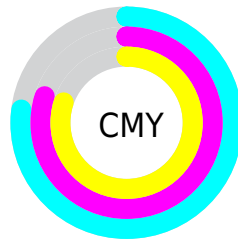


 Cyan (0%)

 Magenta (12%)

 Yellow (12%)

 Black (77%)



 Cyan (77%)

 Magenta (80%)

 Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 3.312, 20.003 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, 3.312, 20.003 by changing the saturation by 10% instead.

■ 22, 3.312, 20.003 ■ 22, 3.312, 20.003

■ 100, 3.312, 20.003 ■ 12, 3.312, 20.003

■ 42, 3.312, 20.003 ■ 2, 3.312, 20.003

■ 52, 3.312, 20.003 ■ 0, 3.312, 20.003

■ 62, 3.312, 20.003

■ 72, 3.312, 20.003

■ 82, 3.312, 20.003

■ 92, 3.312, 20.003

■ 22, 3.312, 20.003 ■ 22, 3.312, 20.003

■ 20, 6.266, 20.746 ■ 24, 0.547, 19.104

18, 9.413, 21.629	26, 2.038, 199.187
16, 12.742, 22.733	28, 4.455, 198.755
14, 16.228, 24.120	30, 6.720, 198.433
13, 19.823, 25.857	32, 8.848, 198.172
11, 23.177, 26.677	34, 10.854, 197.956
10, 25.983, 26.417	37, 12.751, 197.775
9, 28.540, 25.671	39, 14.550, 197.622
8, 30.757, 24.746	41, 16.264, 197.491

Harmonies

Complementary

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



22, 3.312, 20.003



24, 3.102, 198.933

Rectangle

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



22, 3.312, 20.003



22, 3.312, 70.003



22, 3.312, 200.003



22, 3.312, 250.003

Sweetspot

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



22, 3.311, 20.017



32, 1.347, 19.431



22, 5.695, 324.989



15, 0.940, 19.465



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, 3.311, 20.017



29, 4.883, 20.198



23, 2.849, 74.106



9, 1.459, 19.758



17, 46.056, 34.464



46, 93.316, 40.002

Inverse Universe

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



24, 3.102, 198.933



32, 4.506, 198.802



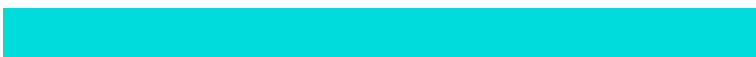
23, 2.780, 256.830



10, 1.395, 199.138



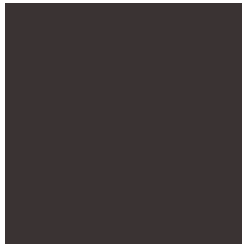
35, 23.752, 196.411



80, 44.709, 196.413

Previews

White Background



This preview shows how the CIELCh color 22, 3.312, 20.003 looks on a white background.

Color Contrast Check

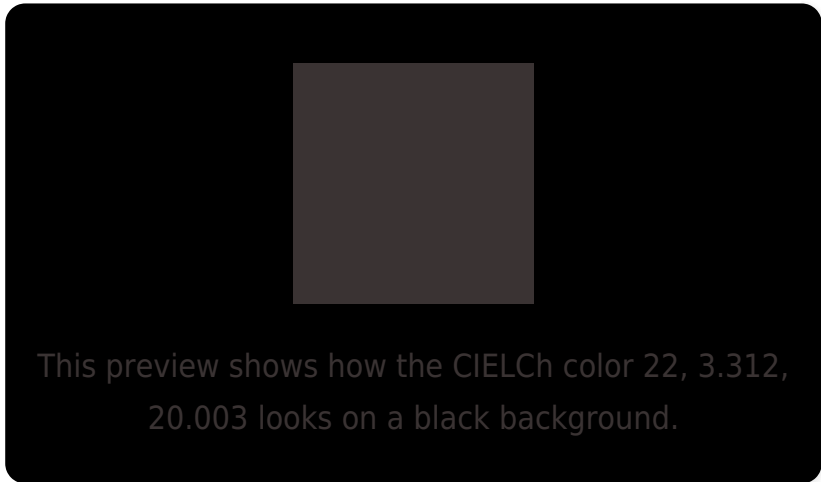
Large Text (above 18pt) WCAG AA ✓ Pass

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

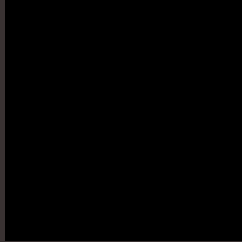
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 3.312, 20.003

Background



This preview shows how black text looks on a background with the CIELCh color 22, 3.312, 20.003.

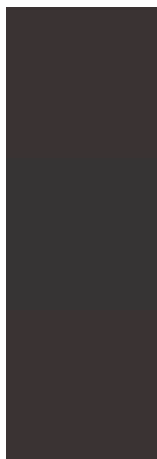


This preview shows how white text looks on a background with the CIELCh color 22, 3.312, 20.003.

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, 3.312, 20.003

Protanopia

22, 0.930, 19.357

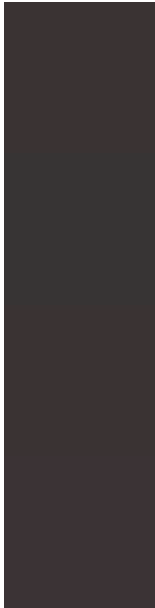
Deuteranopia

22, 3.312, 20.003



Tritanopia
22, 4.240, 352.025

Trichromacy



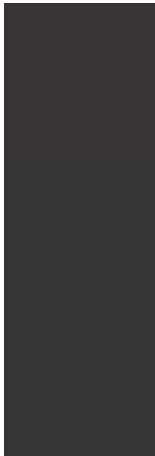
Original Color
22, 3.312, 20.003

Protanomaly
22, 1.400, 19.527

Deuteranomaly
22, 3.312, 20.003

Tritanomaly
22, 3.984, 0.597

Monochromacy



Original Color
22, 3.312, 20.003

Achromatopsia
22, 0.004, 296.813

Achromatomaly
22, 1.400, 19.527

CSS Examples

Text

The CSS property to change the color of the text to CIE LCh 22, 3.312, 20.003 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(58, 51, 51)` looks like.

```
.text, #text, p{  
    color:rgb(58, 51, 51)  
}
```

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(58, 51, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 51, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 3.312, 20.003 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(58, 51, 51) }
```

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

```
.border{ border-color:rgb(58, 51, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 51, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 51, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 51, 51);  
box-shadow:4px 4px 4px 4px rgb(58, 51, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 3.312, 20.003 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 51, 51) }
```

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

```
.background{ background-color: rgb(58, 51,  
51) }
```

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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