

Converting Colors

CIELCh(20, 21.204, 103.335)

Have a look what the booklet for
CIELCh(20, 21.204, 103.335)
contains.

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Color

CIELCh(20, 21.358, 103.568)

Conversions

Conversions Part 1

Format	Color
Hex	333211
RGB	51, 50, 17
RGB Percent	20%, 20%, 7%
CMY	0.8013, 0.8052, 0.9345
CMYK	0.00, 0.02, 0.67, 0.80
HSL	58°, 50%, 13%
HSV	58°, 67%, 20%
XYZ	2.5746, 2.9891, 0.9593
YIQ	46.5370, 11.1890, -10.0510

Conversions

Conversions Part 2

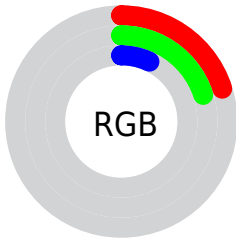
Format	Color
RYB	18, 51, 17
Decimal	3355153
CIELab	20.00, -5.01, 20.76
CIELCh	20, 21.358, 103.568
Yxy	2.9891, 0.3947, 0.4582
Android (android.graphics.Color)	4281545233 (0xFF333211)
YUV	46.5370, -14.5617, 3.9141
Hunter-Lab	17.2889, -3.6741, 8.8125

Details

The CIELCh color **20, 21.358, 103.568** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **7, 24.781, 297.421**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 21.567, 103.068**, and **0, 0.492, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **20, 23.832, 102.984**, and if you desaturate by 10%, it is **20, 18.445, 104.323**.

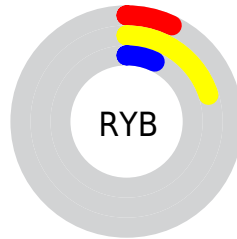
Distribution



 Red (20%)

 Green (20%)

 Blue (7%)



 Red (7%)

 Yellow (20%)

 Blue (7%)

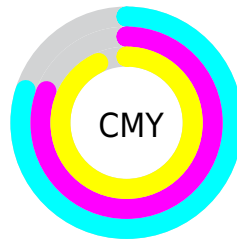


 Cyan (0%)

 Magenta (2%)

 Yellow (67%)

 Black (80%)



 Cyan (80%)


 Magenta (81%)


 Yellow (93%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 21.358, 103.568 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 20, 21.358, 103.568 by changing the saturation by 10% instead.

 20, 21.358,
103.568

 20, 21.358,
103.568


 100, 21.358,
103.568


 10, 21.358,
103.568


 40, 21.358,
103.568

 0, 21.358, 103.568

 50, 21.358,
103.568

 60, 21.358,
103.568

 70, 21.358,
103.568

 80, 21.358,
103.568

 90, 21.358,

103.568

■ 20, 21.358,
103.568

■ 20, 21.358,
103.568

■ 20, 23.832,
102.984

■ 20, 18.445,
104.323

■ 20, 25.828,
102.568

■ 20, 15.368,
105.117

■ 20, 27.794,
102.223

■ 20, 12.184,
105.935

■ 20, 28.376,
102.132

■ 21, 8.933, 106.766

■ 21, 5.643, 107.597

■ 21, 2.333, 108.417

■ 21, 0.985, 289.273

■ 21, 4.303, 290.045

■ 22, 7.613, 290.815

Harmonies

Complementary

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



20, 21.358, 103.568



7, 24.781, 297.421

Rectangle

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



20, 21.358, 103.568



20, 21.358, 153.568



20, 21.358, 283.568



20, 21.358, 333.568

Sweetspot

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



20, 21.358, 103.571



28, 8.293, 107.262



10, 18.813, 22.956



12, 5.534, 107.224



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



20, 21.358, 103.571



27, 30.625, 102.421



19, 23.507, 125.348



9, 1.839, 108.330



36, 44.166, 101.135



82, 83.889, 100.981

Inverse Universe

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



7, 24.781, 297.421



7, 38.040, 300.984



9, 25.765, 310.916



8, 1.867, 289.603



7, 60.269, 305.388



27, 117.140, 306.002

Previews

White Background



This preview shows how the CIELCh color 20, 21.358, 103.568 looks on a white background.

Color Contrast Check

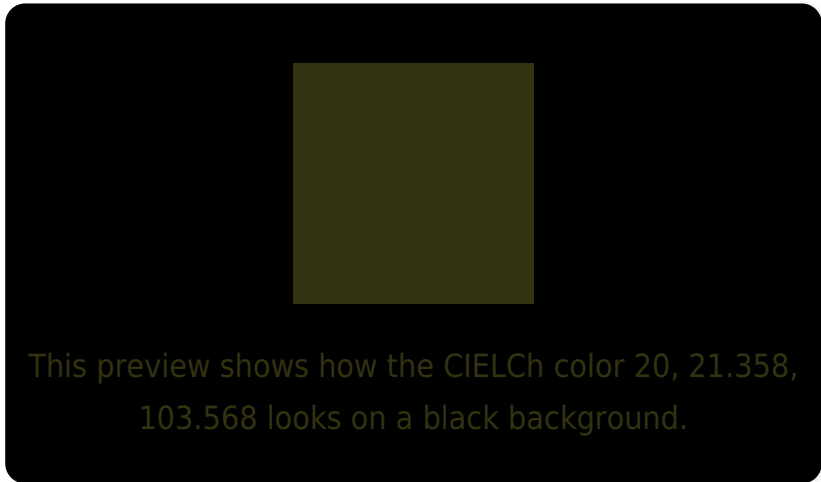
Large Text (above 18pt) WCAG AA ✓ Pass

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

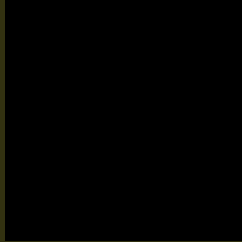
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 21.358, 103.568

Background



This preview shows how black text looks on a background with the CIELCh color 20, 21.358, 103.568.

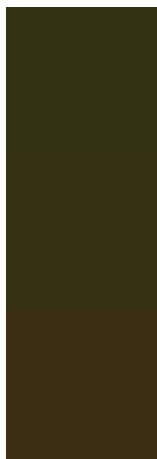


This preview shows how white text looks on a background with the CIELCh color 20, 21.358, 103.568.

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


20, 21.358, 103.568

Protanopia

20, 21.577, 97.638

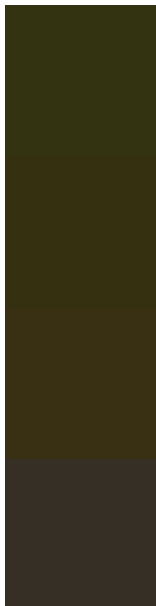
Deuteranopia

20, 20.296, 82.961



Tritanopia
20, 4.653, 344.680

Trichromacy



Original Color
20, 21.358, 103.568

Protanomaly
20, 21.502, 99.097

Deuteranomaly
20, 19.993, 89.347

Tritanomaly
20, 6.836, 82.317

Monochromacy



Original Color
20, 21.358, 103.568

Achromatopsia
19, 0.004, 296.813

Achromatomaly
19, 8.158, 104.584

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 21.358, 103.568 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(51, 50, 17)` looks like.

```
.text, #text, p{  
    color:rgb(51, 50, 17)  
}
```

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(51, 50, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 50, 17) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 21.358, 103.568 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(51, 50, 17) }
```

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

```
.border{ border-color:rgb(51, 50, 17) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 50, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 50, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 50, 17);  
box-shadow:4px 4px 4px 4px rgb(51, 50, 17)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 21.358, 103.568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 50, 17) }
```

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

```
.background{ background-color: rgb(51, 50,  
17) }
```

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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