

Converting Colors

CIELCh(20, 1.202, 18.396)

Have a look what the booklet for
CIELCh(20, 1.202, 18.396) contains.

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Color

CIELCh(20, 0.942, 19.383)

Conversions

Conversions Part 1

Format	Color
Hex	323030
RGB	50, 48, 48
RGB Percent	20%, 19%, 19%
CMY	0.8045, 0.8123, 0.8123
CMYK	0.00, 0.04, 0.04, 0.80
HSL	0°, 2%, 19%
HSV	0°, 4%, 20%
XYZ	2.8901, 2.9891, 3.2056
YIQ	48.5980, 1.1920, 0.4240

Conversions

Conversions Part 2

Format	Color
R_{YB}	50, 48, 48
Decimal	3289136
CIE Lab	20.00, 0.89, 0.31
CIE LCh	20, 0.942, 19.383
Yxy	2.9891, 0.3181, 0.3290
Android (android.graphics.Color)	4281479216 (0xFF323030)
YUV	48.5980, -0.2948, 1.2296
Hunter-Lab	17.2889, -0.4166, 1.1089

Details

The CIELCh color **20, 0.942, 19.383** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **21, 0.922, 199.491**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 0.841, 19.137**, and **0, 0.832, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **18, 3.400, 20.147**, and if you desaturate by 10%, it is **22, 1.361, 199.345**.

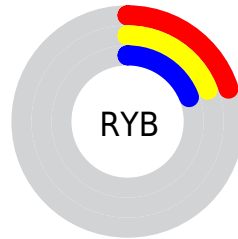
Distribution



Red (20%)

Green (19%)

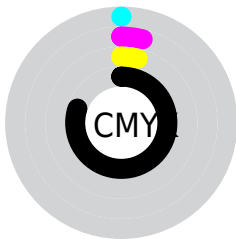
Blue (19%)



Red (20%)

Yellow (19%)

Blue (19%)

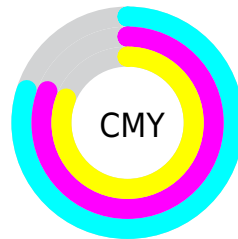


Cyan (0%)

Magenta (4%)

Yellow (4%)

Black (80%)



Cyan (80%)

Magenta (81%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 0.942, 19.383 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, 0.942, 19.383 by changing the saturation by 10% instead.

■ 20, 0.942, 19.383

■ 20, 0.942, 19.383

100, 0.942, 19.383

■ 10, 0.942, 19.383

■ 40, 0.942, 19.383

■ 0, 0.942, 19.383

■ 50, 0.942, 19.383

■ 60, 0.942, 19.383

■ 70, 0.942, 19.383

■ 80, 0.942, 19.383

■ 90, 0.942, 19.383

■ 20, 0.942, 19.383

■ 20, 0.942, 19.383

■ 18, 3.400, 20.147

■ 22, 1.361, 199.345

16, 6.021, 20.868	24, 3.519, 198.876
15, 8.805, 21.743	25, 5.544, 198.545
13, 11.744, 22.829	27, 7.449, 198.277
12, 14.814, 24.184	29, 9.246, 198.056
10, 17.811, 24.743	31, 10.946, 197.870
9, 20.486, 24.072	33, 12.560, 197.713
8, 22.829, 22.944	35, 14.096, 197.578
7, 25.094, 21.901	36, 15.565, 197.463

Harmonies

Complementary

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



20, 0.942, 19.383



21, 0.922, 199.491

Rectangle

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



20, 0.942, 19.383



20, 0.942, 69.383



20, 0.942, 199.383



20, 0.942, 249.383

Sweetspot

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



20, 0.941, 19.425



27, 0.286, 18.646



20, 1.658, 324.565



13, 0.165, 18.496



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, 0.941, 19.425



26, 1.450, 19.542



20, 0.818, 74.847



8, 0.796, 19.517



16, 44.922, 34.031



45, 92.494, 40.005

Inverse Universe

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



21, 0.922, 199.491



27, 1.410, 199.381



20, 0.817, 256.000



9, 0.776, 199.404



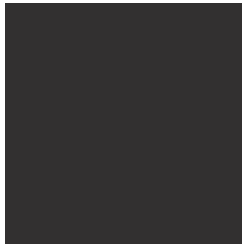
34, 23.283, 196.459



79, 44.296, 196.465

Previews

White Background



This preview shows how the CIELCh color 20, 0.942, 19.383 looks on a white background.

Color Contrast Check

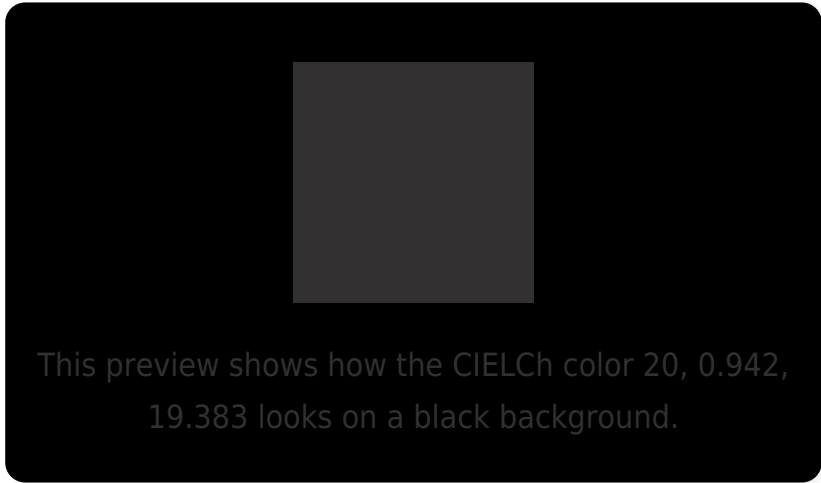
Large Text (above 18pt) WCAG AA ✓ Pass

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

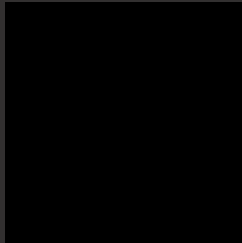
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

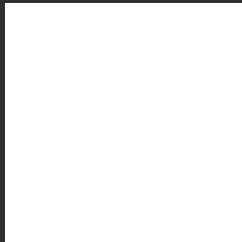
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 20, 0.942, 19.383

Background



This preview shows how black text looks on a background with the CIELCh color 20, 0.942, 19.383.

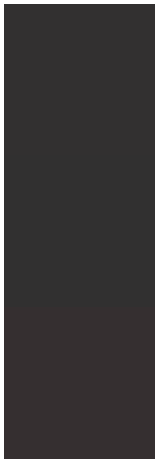


This preview shows how white text looks on a background with the CIELCh color 20, 0.942, 19.383.

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, 0.942, 19.383

Protanopia

20, 0.470, 19.067

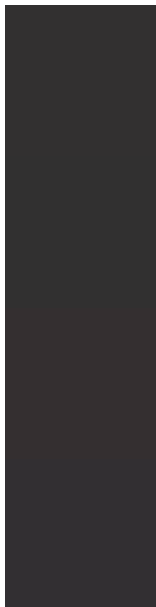
Deuteranopia

20, 2.935, 6.629



Tritanopia
20, 3.076, 317.548

Trichromacy



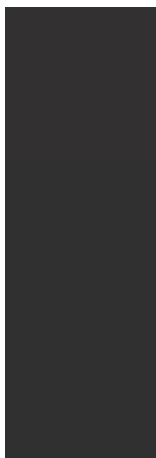
Original Color
20, 0.942, 19.383

Protanomaly
20, 0.470, 19.067

Deuteranomaly
20, 2.470, 3.919

Tritanomaly
20, 2.491, 324.676

Monochromacy



Original Color
20, 0.942, 19.383

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 0.470, 19.067

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 0.942, 19.383 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, 48, 48)` looks like.

```
.text, #text, p{  
    color:rgb(50, 48, 48)  
}
```

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, 48, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 48, 48) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 0.942, 19.383 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, 48, 48) }
```

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

```
.border{ border-color:rgb(50, 48, 48) }
```

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

Here you see how a box with a 4 pixel rgb(50, 48, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 48, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 48, 48);  
box-shadow:4px 4px 4px 4px rgb(50, 48, 48)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 0.942, 19.383 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 48, 48) }
```

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

```
.background{ background-color: rgb(50, 48,  
48) }
```

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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