

Converting Colors

CIELCh(20, 2.696, 166.542)

Have a look what the booklet for
CIELCh(20, 2.696, 166.542) contains.

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Color

CIELCh(20, 2.323, 163.158)

Conversions

Conversions Part 1

Format	Color
Hex	2D312F
RGB	45, 49, 47
RGB Percent	18%, 19%, 18%
CMY	0.8225, 0.8068, 0.8147
CMYK	0.08, 0.00, 0.04, 0.81
HSL	150°, 4%, 19%
HSV	150°, 8%, 19%
XYZ	2.7206, 2.9891, 3.1498
YIQ	47.5760, -1.7420, -1.4700

Conversions

Conversions Part 2

Format	Color
RYB	45, 48, 49
Decimal	2961711
CIELab	20.00, -2.22, 0.67
CIELCh	20, 2.323, 163.158
Yxy	2.9891, 0.3071, 0.3374
Android (android.graphics.Color)	4281151791 (0xFF2D312F)
YUV	47.5760, -0.2840, -2.2592
Hunter-Lab	17.2889, -2.1663, 1.3002

Details

The CIELCh color **20, 2.323, 163.158** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 2.347, 344.134**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 2.079, 163.446**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 5.185, 162.379**, and if you desaturate by 10%, it is **21, 0.536, 343.478**.

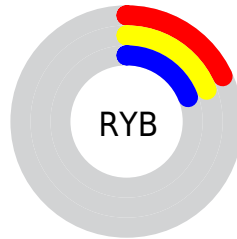
Distribution



Red (18%)

Green (19%)

Blue (18%)



Red (18%)

Yellow (19%)

Blue (19%)

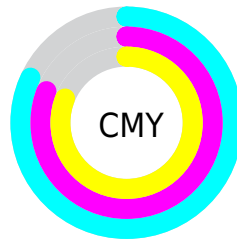


Cyan (8%)

Magenta (0%)

Yellow (4%)

Black (81%)



Cyan (82%)

Magenta (81%)

Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 2.323, 163.158 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, 2.323, 163.158 by changing the saturation by 10% instead.

 20, 2.323, 163.158

 20, 2.323, 163.158

 100, 2.323,
163.158

 10, 2.323, 163.158

 0, 2.323, 163.158

 40, 2.323, 163.158

 50, 2.323, 163.158

 60, 2.323, 163.158

 70, 2.323, 163.158

 80, 2.323, 163.158

 90, 2.323, 163.158

 20, 2.323, 163.158

 20, 2.323, 163.158

■ 19, 5.185, 162.379

■ 21, 0.536, 343.478

■ 19, 8.024, 161.564

■ 21, 3.376, 344.346

■ 19, 10.813,
160.675

■ 22, 6.180, 344.950

■ 18, 13.521,
159.696

■ 22, 8.938, 345.504

■ 18, 16.115,
158.613

■ 23, 11.641,
346.021

■ 18, 18.561,
157.411

■ 24, 14.284,
346.507

■ 17, 20.828,
156.076

■ 25, 16.864,
346.967

■ 17, 22.987,
154.774

■ 25, 19.379,
347.403

■ 17, 25.196,
153.772

■ 26, 21.829,
347.818

Harmonies

Complementary

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



20, 2.323, 163.158



19, 2.347, 344.134

Rectangle

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



20, 2.323, 163.158



20, 2.323, 213.158



20, 2.323, 343.158



20, 2.323, 33.158

Sweetspot

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



20, 2.324, 163.152



27, 0.707, 163.756



20, 2.873, 128.200



13, 0.406, 163.819



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, 2.324, 163.152



26, 3.551, 162.966



20, 1.840, 197.730



9, 1.626, 163.139



33, 39.898, 150.971



76, 79.206, 148.874

Inverse Universe

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



19, 2.347, 344.134



25, 3.594, 344.320



19, 1.917, 18.354



8, 1.642, 344.147



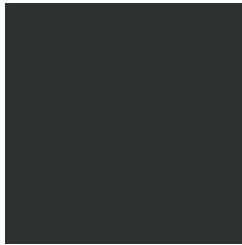
17, 39.698, 358.692



47, 74.905, 2.485

Previews

White Background



This preview shows how the CIELCh color 20, 2.323, 163.158 looks on a white background.

Color Contrast Check

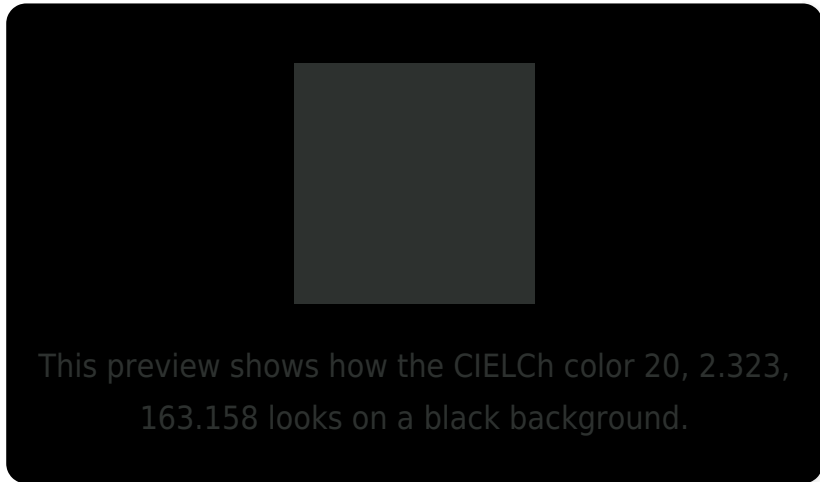
Large Text (above 18pt) WCAG AA ✓ Pass

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

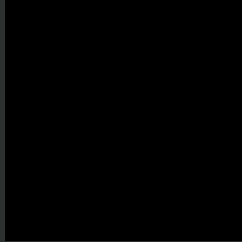
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

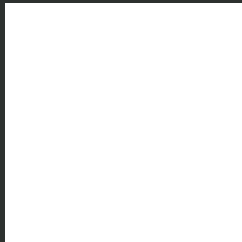
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 20, 2.323, 163.158

Background



This preview shows how black text looks on a background with the CIELCh color 20, 2.323, 163.158.

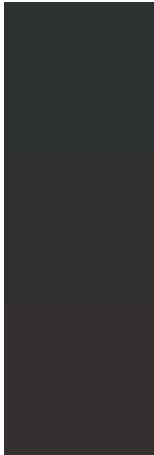


This preview shows how white text looks on a background with the CIELCh color 20, 2.323, 163.158.

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

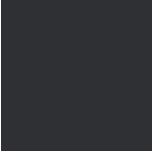
20, 2.323, 163.158

Protanopia

20, 0.821, 74.844

Deuteranopia

20, 2.935, 6.629



Tritanopia
20, 2.856, 272.424

Trichromacy



Original Color

20, 2.323, 163.158

Protanomaly

20, 0.677, 109.979

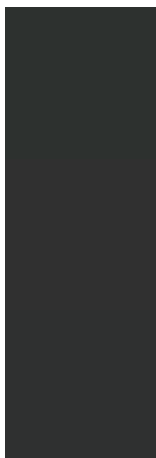
Deuteranomaly

20, 0.942, 19.383

Tritanomaly

20, 1.630, 256.349

Monochromacy



Original Color

20, 2.323, 163.158

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 0.466, 199.750

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 2.323, 163.158 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(45, 49, 47)` looks like.

```
.text, #text, p{  
    color:rgb(45, 49, 47)  
}
```

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(45, 49, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 49, 47) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 2.323, 163.158 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(45, 49, 47) }
```

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

```
.border{ border-color:rgb(45, 49, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 49, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 49, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 49, 47);  
box-shadow:4px 4px 4px 4px rgb(45, 49, 47)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 2.323, 163.158 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 49, 47) }
```

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

```
.background{ background-color: rgb(45, 49,  
47) }
```

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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