

Converting Colors

CIELCh(20, 0.582, 228.964)

Have a look what the booklet for
CIELCh(20, 0.582, 228.964) contains.

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Color

CIELCh(20, 0.820, 256.004)

Conversions

Conversions Part 1

Format	Color
Hex	2F3031
RGB	47, 48, 49
RGB Percent	18%, 19%, 19%
CMY	0.8140, 0.8101, 0.8062
CMYK	0.04, 0.02, 0.00, 0.81
HSL	210°, 2%, 19%
HSV	210°, 4%, 19%
XYZ	2.8301, 2.9891, 3.3813
YIQ	47.8150, -0.9170, 0.0990

Conversions

Conversions Part 2

Format	Color
R_{YB}	47, 48, 49
Decimal	3092529
CIE Lab	20.00, -0.20, -0.80
CIE LCh	20, 0.820, 256.004
Yxy	2.9891, 0.3076, 0.3249
Android (android.graphics.Color)	4281282609 (0xFF2F3031)
YUV	47.8150, 0.5842, -0.7148
Hunter-Lab	17.2889, -1.0357, 0.5063

Details

The CIELCh color **20, 0.820, 256.004** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 0.821, 74.795**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 0.737, 255.947**, and **0, 0.403, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **19, 2.826, 256.963**, and if you desaturate by 10%, it is **21, 1.199, 74.679**.

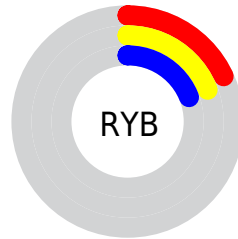
Distribution



Red (18%)

Green (19%)

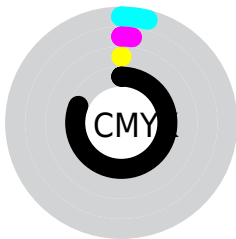
Blue (19%)



Red (18%)

Yellow (19%)

Blue (19%)



Cyan (4%)

Magenta (2%)

Yellow (0%)

Black (81%)



Cyan (81%)

Magenta (81%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 0.820, 256.004 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, 0.820, 256.004 by changing the saturation by 10% instead.

■ 20, 0.820, 256.004

■ 20, 0.820, 256.004

100, 0.820,
256.004

■ 10, 0.820, 256.004

■ 0, 0.820, 256.004

■ 40, 0.820, 256.004

■ 50, 0.820, 256.004

■ 60, 0.820, 256.004

■ 70, 0.820, 256.004

■ 80, 0.820, 256.004

■ 90, 0.820, 256.004

■ 20, 0.820, 256.004

■ 20, 0.820, 256.004

■ 19, 2.826, 256.963

■ 21, 1.199, 74.679

■ 17, 4.815, 258.245

■ 23, 3.224, 73.888

■ 16, 6.780, 259.741

■ 24, 5.252, 73.143

■ 15, 8.718, 261.475

■ 25, 7.278, 72.476

■ 14, 10.624,
263.482

■ 27, 9.298, 71.880

■ 12, 12.497,
265.795

■ 28, 11.311, 71.346

■ 29, 13.313, 70.864

■ 11, 14.342,
268.440

■ 30, 15.302, 70.429

■ 10, 16.177,
271.329

■ 32, 17.278, 70.032

■ 9, 18.089, 273.702

Harmonies

Complementary

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



20, 0.820, 256.004



20, 0.821, 74.795

Rectangle

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



20, 0.820, 256.004



20, 0.820, 306.004



20, 0.820, 76.004



20, 0.820, 126.004

Sweetspot

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



20, 0.820, 255.952



27, 0.253, 256.120



20, 1.173, 162.623



13, 0.146, 256.211



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, 0.820, 255.952



26, 1.251, 256.042



20, 1.346, 289.863



9, 0.688, 256.018



18, 31.245, 280.354



47, 64.498, 284.538

Inverse Universe

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



20, 1.169, 343.769



26, 1.788, 343.882



20, 1.330, 109.165



8, 0.983, 343.856



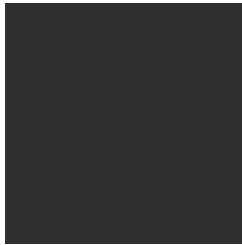
17, 39.701, 358.665



47, 74.909, 2.456

Previews

White Background



This preview shows how the CIELCh color 20, 0.820, 256.004 looks on a white background.

Color Contrast Check

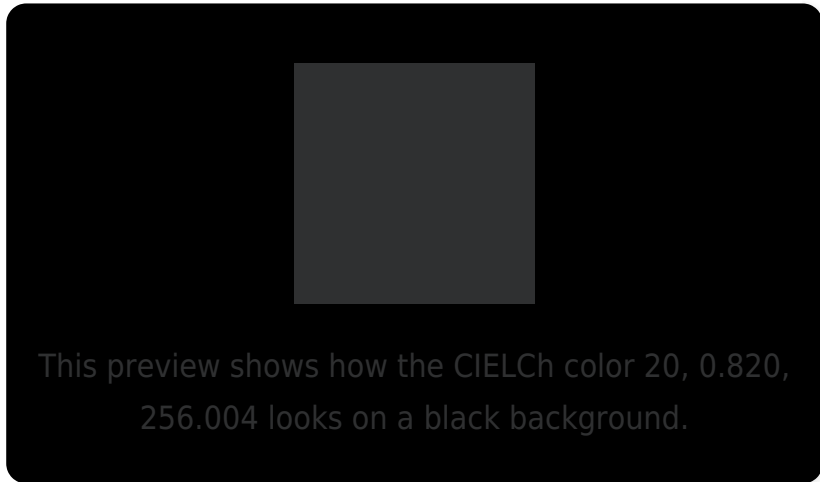
Large Text (above 18pt) WCAG AA ✓ Pass

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

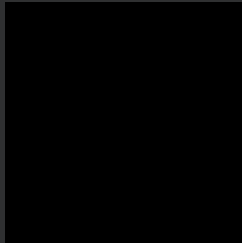
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

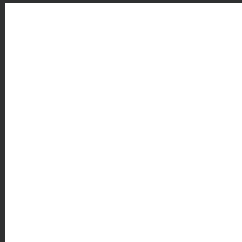
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 20, 0.820, 256.004

Background



This preview shows how black text looks on a background with the CIELCh color 20, 0.820, 256.004.

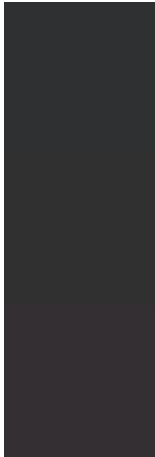


This preview shows how white text looks on a background with the CIELCh color 20, 0.820, 256.004.

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, 0.820, 256.004

Protanopia

20, 0.833, 324.418

Deuteranopia

20, 3.118, 339.193



Tritanopia
20, 2.726, 290.835

Trichromacy



Original Color

20, 0.820, 256.004

Protanomaly

20, 0.684, 290.376

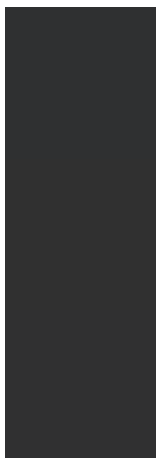
Deuteranomaly

20, 1.659, 324.565

Tritanomaly

20, 2.045, 290.677

Monochromacy



Original Color

20, 0.820, 256.004

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 0.684, 290.376

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 0.820, 256.004 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(47, 48, 49)` looks like.

```
.text, #text, p{  
    color:rgb(47, 48, 49)  
}
```

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(47, 48, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 48, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 0.820, 256.004 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(47, 48, 49) }
```

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

```
.border{ border-color:rgb(47, 48, 49) }
```

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

Here you see how a box with a 4 pixel rgb(47, 48, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 48, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 48, 49);  
box-shadow:4px 4px 4px 4px rgb(47, 48, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 0.820, 256.004 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 48, 49) }
```

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

```
.background{ background-color: rgb(47, 48,  
49) }
```

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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