

Converting Colors

CIELCh(20, 20.028, 30.949)

Have a look what the booklet for
CIELCh(20, 20.028, 30.949) contains.

CIELCh(20, 19.821, 31.541)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(20, 19.821, 31.541)

Conversions

Conversions Part 1

Format	Color
Hex	4B2622
RGB	75, 38, 34
RGB Percent	29%, 15%, 13%
CMY	0.7062, 0.8513, 0.8669
CMYK	0.00, 0.49, 0.55, 0.71
HSL	6°, 38%, 21%
HSV	6°, 55%, 29%
XYZ	3.8735, 2.9891, 1.8808
YIQ	48.6070, 23.3360, 6.6000

Conversions

Conversions Part 2

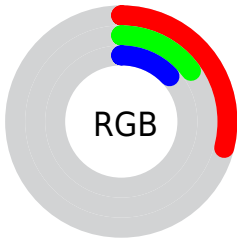
Format	Color
RYB	75, 38, 34
Decimal	4924962
CIELab	20.00, 16.89, 10.37
CIElCh	20, 19.821, 31.541
Yxy	2.9891, 0.4430, 0.3419
Android (android.graphics.Color)	4283115042 (0xFF4B2622)
YUV	48.6070, -7.2013, 23.1467
Hunter-Lab	17.2889, 9.7370, 5.6521

Details

The CIELCh color **20, 19.821, 31.541** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **28, 13.575, 208.557**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 19.777, 32.484**, and **3, 12.529, 17.560** is the 20% darker color. If you saturate the color by 10%, you get **18, 24.170, 32.878**, and if you desaturate by 10%, it is **22, 15.659, 30.509**.

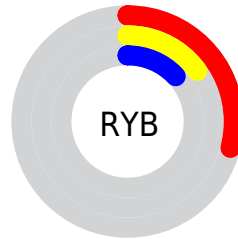
Distribution



Red (29%)

Green (15%)

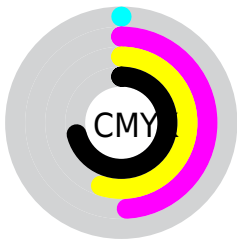
Blue (13%)



Red (29%)

Yellow (15%)

Blue (13%)

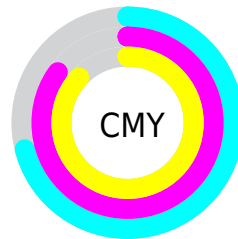


Cyan (0%)

Magenta (49%)

Yellow (55%)

Black (71%)



Cyan (71%)

Magenta (85%)

Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 19.821, 31.541 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, 19.821, 31.541 by changing the saturation by 10% instead.

 20, 19.821, 31.541

 20, 19.821, 31.541

 100, 19.821,
31.541

 10, 19.821, 31.541

 0, 19.821, 31.541

 40, 19.821, 31.541

 50, 19.821, 31.541

 60, 19.821, 31.541

 70, 19.821, 31.541

 80, 19.821, 31.541

 90, 19.821, 31.541

 20, 19.821, 31.541

 20, 19.821, 31.541

■ 18, 24.170, 32.878

■ 22, 15.659, 30.509

■ 17, 28.603, 34.449

■ 24, 11.728, 29.722

■ 15, 32.372, 34.748

■ 26, 8.047, 29.135

■ 14, 35.370, 34.592

■ 28, 4.615, 28.695

■ 14, 36.834, 34.807

■ 31, 1.424, 28.272

■ 33, 1.543, 208.452

■ 35, 4.306, 208.222

■ 38, 6.883, 208.140

■ 40, 9.295, 208.115

Harmonies

Complementary

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



20, 19.821, 31.541



28, 13.575, 208.557

Rectangle

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



20, 19.821, 31.541



20, 19.821, 81.541



20, 19.821, 211.541



20, 19.821, 261.541

Sweetspot

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



20, 19.820, 31.545



37, 6.257, 28.769



20, 29.563, 329.568



17, 4.181, 28.806



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



20, 19.820, 31.545



24, 30.824, 33.460



26, 18.118, 77.295



14, 1.742, 28.464



20, 49.099, 38.636



49, 95.109, 40.950

Inverse Universe

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



28, 13.575, 208.557



35, 18.785, 209.203



21, 16.929, 273.142



15, 1.657, 208.321



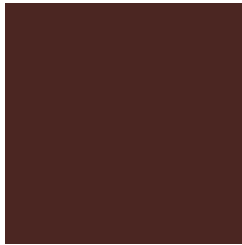
35, 22.916, 212.652



76, 41.250, 213.976

Previews

White Background



This preview shows how the CIE LCh color 20, 19.821, 31.541 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



This preview shows how the CIE LCh color 20, 19.821, 31.541 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

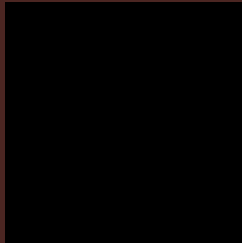
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 19.821, 31.541

Background



This preview shows how black text looks on a background with the CIELCh color 20, 19.821, 31.541.

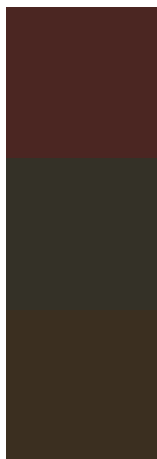


This preview shows how white text looks on a background with the CIELCh color 20, 19.821, 31.541.

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, 19.821, 31.541

Protanopia

20, 6.914, 96.002

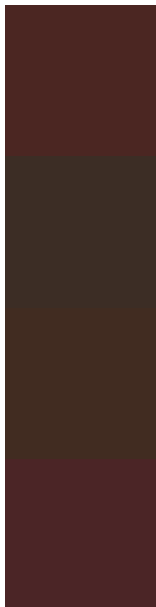
Deuteranopia

20, 12.049, 76.024



Tritanopia
20, 19.242, 18.436

Trichromacy



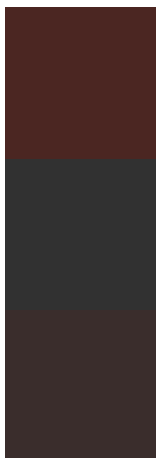
Original Color
20, 19.821, 31.541

Protanomaly
20, 9.559, 54.843

Deuteranomaly
20, 13.626, 53.755

Tritanomaly
20, 19.460, 22.343

Monochromacy



Original Color
20, 19.821, 31.541

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 6.454, 26.726

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 19.821, 31.541 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(75, 38, 34)` looks like.

```
.text, #text, p{  
    color:rgb(75, 38, 34)  
}
```

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(75, 38, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 38, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 19.821, 31.541 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(75, 38, 34) }
```

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

```
.border{ border-color:rgb(75, 38, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 38, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 38, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 38, 34);  
box-shadow:4px 4px 4px 4px rgb(75, 38, 34)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 19.821, 31.541 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 38, 34) }
```

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

```
.background{ background-color: rgb(75, 38,  
34) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor