

Converting Colors

CIELCh(20, 18.111, 358.977)

Have a look what the booklet for
CIELCh(20, 18.111, 358.977)
contains.

CIELCh(20, 18.065, 0.284)	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, 18.065, 0.284)

Conversions

Conversions Part 1

Format	Color
Hex	492631
RGB	73, 38, 49
RGB Percent	29%, 15%, 19%
CMY	0.7151, 0.8522, 0.8090
CMYK	0.00, 0.48, 0.33, 0.72
HSL	341°, 32%, 22%
HSV	341°, 48%, 28%
XYZ	3.9532, 2.9891, 3.2405
YIQ	49.7190, 17.3290, 10.8410

Conversions

Conversions Part 2

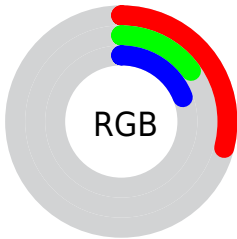
Format	Color
R_{YB}	73, 38, 49
Decimal	4793905
CIE Lab	20.00, 18.06, 0.09
CIE LCh	20, 18.065, 0.284
Yxy	2.9891, 0.3882, 0.2935
Android (android.graphics.Color)	4282983985 (0xFF492631)
YUV	49.7190, -0.3545, 20.4174
Hunter-Lab	17.2889, 10.5598, 0.9893

Details

The CIELCh color $[20, 18.065, 0.284]$ is a dark color, and the websafe version is hex `663333`. A complement of this color would be $[28, 15.991, 170.443]$, and the grayscale version is $[21, 0.004, 296.813]$.

A 20% lighter version of the original color is $[40, 17.976, 0.603]$, and $[3, 13.206, 17.655]$ is the 20% darker color. If you saturate the color by 10%, you get $[18, 21.800, 2.020]$, and if you desaturate by 10%, it is $[22, 14.221, 358.837]$.

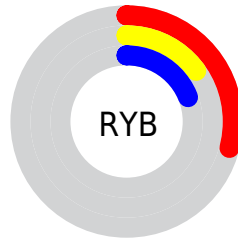
Distribution



 Red (29%)

 Green (15%)

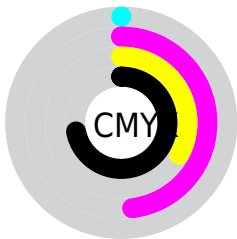
 Blue (19%)



 Red (29%)

 Yellow (15%)

 Blue (19%)

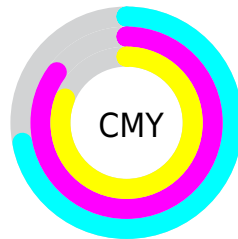


 Cyan (0%)

 Magenta (48%)

 Yellow (33%)

 Black (72%)



 Cyan (72%)

 Magenta (85%)

 Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 18.065, 0.284 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, 18.065, 0.284 by changing the saturation by 10% instead.

 20, 18.065, 0.284

 20, 18.065, 0.284

 100, 18.065, 0.284

 10, 18.065, 0.284

 40, 18.065, 0.284

 0, 18.065, 0.284

 50, 18.065, 0.284

 60, 18.065, 0.284

 70, 18.065, 0.284


 80, 18.065, 0.284

 90, 18.065, 0.284

 20, 18.065, 0.284

 20, 18.065, 0.284

 18, 21.800, 2.020

 22, 14.221,

16, 25.303, 4.131

358.837

15, 28.430, 6.733

24, 10.372,
357.604

14, 31.074, 9.927

27, 6.584, 356.531

13, 33.834, 12.929

29, 2.901, 355.558

12, 34.401, 13.419

31, 0.655, 175.163

34, 4.073, 174.130

36, 7.352, 173.436

39, 10.496,
172.817

41, 13.512,
172.252

Harmonies

Complementary

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



20, 18.065, 0.284



28, 15.991, 170.443

Rectangle

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



20, 18.065, 0.284



20, 18.065, 50.284



20, 18.065, 180.284



20, 18.065, 230.284

Sweetspot

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



20, 18.064, 0.286



36, 6.279, 356.176



19, 25.553, 317.035



17, 4.380, 356.293



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, 18.064, 0.286



24, 26.981, 2.433



21, 15.633, 38.026



13, 1.963, 355.601



19, 43.012, 16.125



48, 80.087, 20.617

Inverse Universe

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



20, 18.064, 0.286



24, 26.981, 2.433



26, 11.362, 219.701



13, 1.963, 355.601



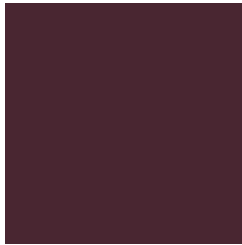
19, 43.012, 16.125



48, 80.087, 20.617

Previews

White Background



This preview shows how the CIE LCh color 20, 18.065, 0.284 looks on a white background.

Color Contrast Check

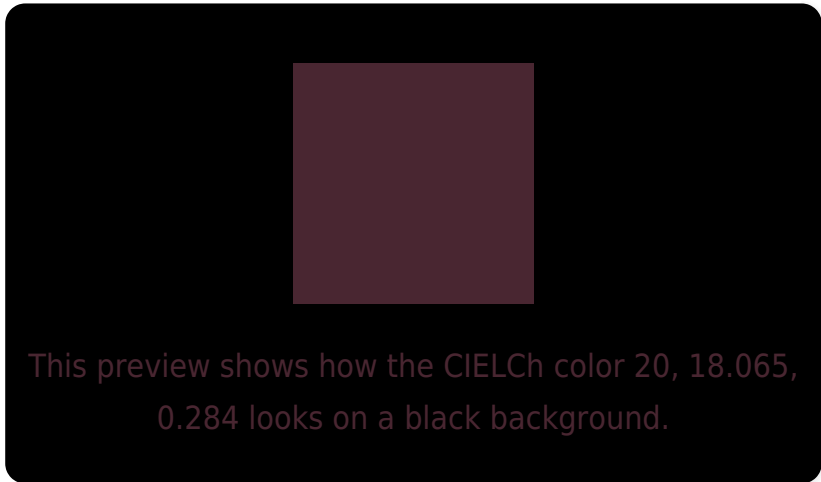
Large Text (above 18pt) WCAG AA ✓ Pass

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

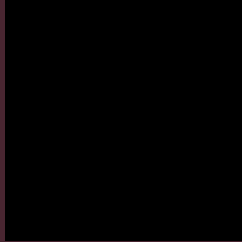
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 18.065, 0.284

Background



This preview shows how black text looks on a background with the CIELCh color 20, 18.065, 0.284.

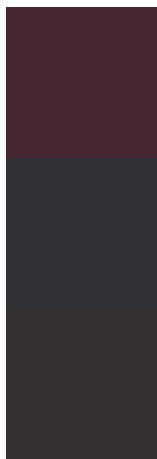


This preview shows how white text looks on a background with the CIELCh color 20, 18.065, 0.284.

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, 18.065, 0.284

Protanopia

20, 4.091, 284.892

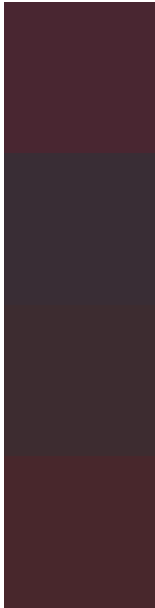
Deuteranopia

20, 3.358, 20.052



Tritanopia
20, 16.614, 16.662

Trichromacy



Original Color

20, 18.065, 0.284

Protanomaly

20, 7.789, 336.954

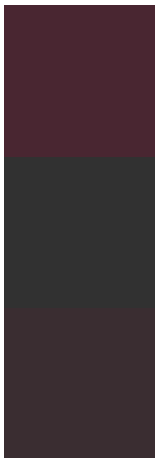
Deuteranomaly

20, 8.609, 3.156

Tritanomaly

20, 16.576, 12.050

Monochromacy



Original Color

20, 18.065, 0.284

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 6.761, 357.357

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 18.065, 0.284 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(73, 38, 49)` looks like.

```
.text, #text, p{  
    color:rgb(73, 38, 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(73, 38, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 38, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 18.065, 0.284 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(73, 38, 49) }
```

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

```
.border{ border-color:rgb(73, 38, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 38, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 38, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 38, 49);  
box-shadow:4px 4px 4px 4px rgb(73, 38, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 18.065, 0.284 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 38, 49) }
```

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

```
.background{ background-color: rgb(73, 38,  
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](#).

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