

Converting Colors

CIELCh(20, 12.504, 40.989)

Have a look what the booklet for
CIELCh(20, 12.504, 40.989) contains.

CIELCh(20, 12.252, 40.748)	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, 12.252, 40.748)

Conversions

Conversions Part 1

Format	Color
Hex	412B25
RGB	65, 43, 37
RGB Percent	25%, 17%, 15%
CMY	0.7450, 0.8312, 0.8548
CMYK	0.00, 0.34, 0.43, 0.74
HSL	13°, 27%, 20%
HSV	13°, 43%, 26%
XYZ	3.3819, 2.9891, 2.1517
YIQ	48.8940, 15.0380, 2.7980

Conversions

Conversions Part 2

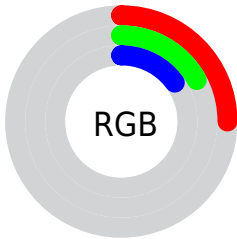
Format	Color
RYB	65, 45, 37
Decimal	4270885
CIELab	20.00, 9.28, 8.00
CIELCh	20, 12.252, 40.748
Yxy	2.9891, 0.3968, 0.3507
Android (android.graphics.Color)	4282460965 (0xFF412B25)
YUV	48.8940, -5.8637, 14.1250
Hunter-Lab	17.2889, 4.6614, 4.7233

Details

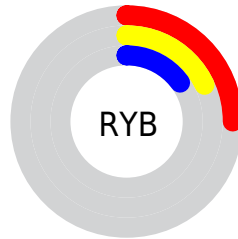
The CIELCh color **20, 12.252, 40.748** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **23, 9.375, 223.511**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 12.110, 41.126**, and **1, 6.850, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **18, 15.648, 40.977**, and if you desaturate by 10%, it is **22, 9.069, 40.669**.

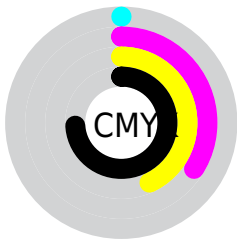
Distribution



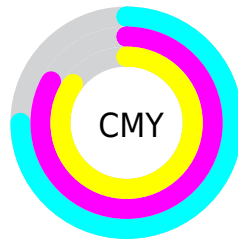
- Red (25%)
- Green (17%)
- Blue (15%)



- Red (25%)
- Yellow (18%)
- Blue (15%)



- Cyan (0%)
- Magenta (34%)
- Yellow (43%)
- Black (74%)



- Cyan (75%)
- Magenta (83%)
- Yellow (85%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 12.252, 40.748 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, 12.252, 40.748 by changing the saturation by 10% instead.

 20, 12.252, 40.748

 20, 12.252, 40.748

 100, 12.252,
40.748

 10, 12.252, 40.748

 0, 12.252, 40.748

 40, 12.252, 40.748

 50, 12.252, 40.748

 60, 12.252, 40.748

 70, 12.252, 40.748

 80, 12.252, 40.748

 90, 12.252, 40.748

 20, 12.252, 40.748

 20, 12.252, 40.748

■ 18, 15.648, 40.977

■ 22, 9.069, 40.669

■ 17, 19.249, 41.360

■ 23, 6.099, 40.697

■ 15, 22.913, 41.609

■ 25, 3.331, 40.799

■ 14, 26.001, 40.420

■ 27, 0.752, 40.758

■ 13, 28.644, 38.871

■ 29, 1.655, 221.495

■ 12, 30.394, 38.301

■ 31, 3.906, 221.719

■ 32, 6.017, 222.037

■ 34, 8.004, 222.388

■ 36, 9.880, 222.758

Harmonies

Complementary

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



20, 12.252, 40.748



23, 9.375, 223.511

Rectangle

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



20, 12.252, 40.748



20, 12.252, 90.748



20, 12.252, 220.748



20, 12.252, 270.748

Sweetspot

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



20, 12.251, 40.754



33, 4.117, 40.793



19, 19.450, 332.990



16, 2.918, 40.779



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



20, 12.251, 40.754



25, 19.079, 41.012



24, 13.596, 88.871



12, 1.419, 40.845



20, 45.010, 42.563



50, 89.930, 43.640

Inverse Universe

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



23, 9.375, 223.511



30, 13.423, 224.697



19, 13.712, 279.806



12, 1.356, 221.526



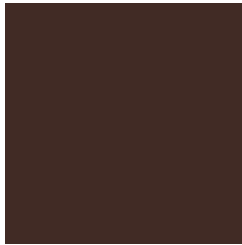
30, 21.644, 235.884



67, 40.304, 239.267

Previews

White Background



This preview shows how the CIELCh color 20, 12.252, 40.748 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 CIELCh color 20, 12.252, 40.748 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

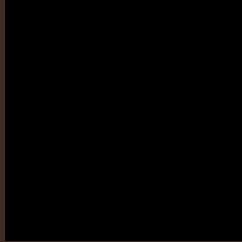
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 12.252, 40.748

Background



This preview shows how black text looks on a background with the CIELCh color 20, 12.252, 40.748.

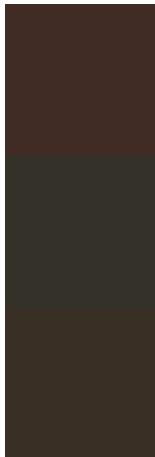


This preview shows how white text looks on a background with the CIELCh color 20, 12.252, 40.748.

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, 12.252, 40.748

Protanopia

20, 6.157, 99.428

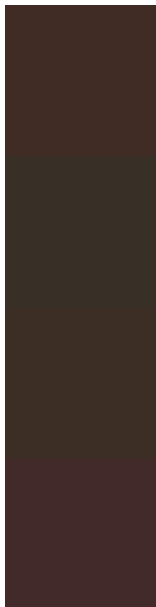
Deuteranopia

20, 9.119, 73.939



Tritanopia
20, 11.973, 12.599

Trichromacy



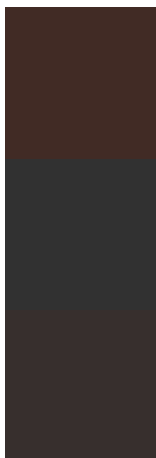
Original Color
20, 12.252, 40.748

Protanomaly
20, 7.120, 69.077

Deuteranomaly
20, 10.040, 62.259

Tritanomaly
20, 12.083, 22.157

Monochromacy



Original Color
20, 12.252, 40.748

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 4.130, 39.177

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 12.252, 40.748 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(65, 43, 37)` looks like.

```
.text, #text, p{  
    color:rgb(65, 43, 37)  
}
```

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(65, 43, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 43, 37) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 12.252, 40.748 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(65, 43, 37) }
```

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

```
.border{ border-color:rgb(65, 43, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 43, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 43, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 43, 37);  
box-shadow:4px 4px 4px 4px rgb(65, 43, 37)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 12.252, 40.748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 43, 37) }
```

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

```
.background{ background-color: rgb(65, 43,  
37) }
```

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