

Converting Colors

CIELCh(20, 12.450, 46.886)

Have a look what the booklet for
CIELCh(20, 12.450, 46.886) contains.

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Color

CIELCh(20, 12.450, 46.886)

Conversions

Conversions Part 1

Format	Color
Hex	402B23
RGB	64, 43, 35
RGB Percent	25%, 17%, 14%
CMY	0.7472, 0.8297, 0.8611
CMYK	0.00, 0.33, 0.45, 0.75
HSL	17°, 29%, 20%
HSV	17°, 45%, 25%
XYZ	3.3345, 2.9891, 2.0240
YIQ	48.3670, 15.0840, 1.9640

Conversions

Conversions Part 2

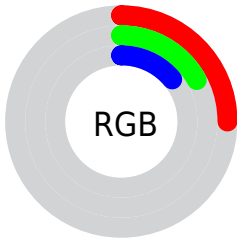
Format	Color
RYB	64, 46, 35
Decimal	4205347
CIELab	20.00, 8.51, 9.09
CIElCh	20, 12.450, 46.886
Yxy	2.9891, 0.3995, 0.3581
Android (android.graphics.Color)	4282395427 (0xFF402B23)
YUV	48.3670, -6.5899, 13.7101
Hunter-Lab	17.2889, 4.1714, 5.1610

Details

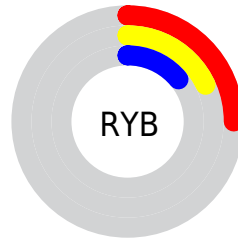
The CIELCh color **20, 12.450, 46.886** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **22, 9.599, 232.511**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 12.593, 49.193**, and **1, 5.526, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **18, 15.749, 46.761**, and if you desaturate by 10%, it is **22, 9.353, 47.125**.

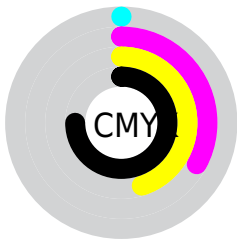
Distribution



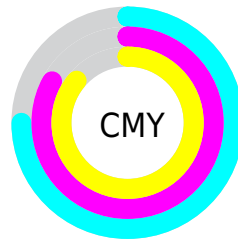
- Red (25%)
- Green (17%)
- Blue (14%)



- Red (25%)
- Yellow (18%)
- Blue (14%)



- Cyan (0%)
- Magenta (33%)
- Yellow (45%)
- Black (75%)



- Cyan (75%)
- Magenta (83%)
- Yellow (86%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 12.450, 46.886 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, 12.450, 46.886 by changing the saturation by 10% instead.

 20, 12.450, 46.886

 20, 12.450, 46.886

 100, 12.450,
46.886

 10, 12.450, 46.886

 0, 12.450, 46.886

 40, 12.450, 46.886

 50, 12.450, 46.886

 60, 12.450, 46.886

 70, 12.450, 46.886

 80, 12.450, 46.886

 90, 12.450, 46.886

 20, 12.450, 46.886

 20, 12.450, 46.886

■ 18, 15.749, 46.761

■ 22, 9.353, 47.125

■ 17, 19.241, 46.741

■ 23, 6.456, 47.442

■ 16, 22.695, 46.357

■ 25, 3.748, 47.816

■ 14, 25.506, 44.579

■ 26, 1.218, 48.143

■ 13, 28.017, 42.791

■ 28, 1.152, 229.032

■ 13, 29.231, 42.190

■ 30, 3.377, 229.426

■ 32, 5.472, 229.945

■ 33, 7.450, 230.490

■ 35, 9.325, 231.044

Harmonies

Complementary

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



20, 12.450, 46.886



22, 9.599, 232.511

Rectangle

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



20, 12.450, 46.886



20, 12.450, 96.886



20, 12.450, 226.886



20, 12.450, 276.886

Sweetspot

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



20, 12.450, 46.892



33, 4.341, 47.834



18, 19.282, 335.792



16, 3.034, 47.794



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, 12.450, 46.892



25, 19.362, 46.752



24, 14.966, 93.523



12, 1.386, 48.058



21, 43.890, 45.830



51, 87.342, 45.929

Inverse Universe

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



22, 9.599, 232.511



29, 13.793, 234.260



18, 15.545, 284.517



12, 1.330, 229.162



27, 22.765, 248.155



63, 43.107, 252.168

Previews

White Background



This preview shows how the CIE LCh color 20, 12.450, 46.886 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

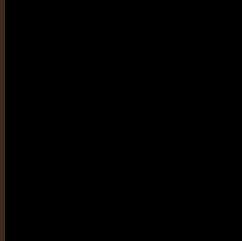
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 12.450, 46.886

Background



This preview shows how black text looks on a background with the CIELCh color 20, 12.450, 46.886.

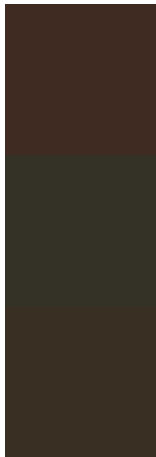


This preview shows how white text looks on a background with the CIELCh color 20, 12.450, 46.886.

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, 12.450, 46.886

Protanopia

20, 7.573, 96.881

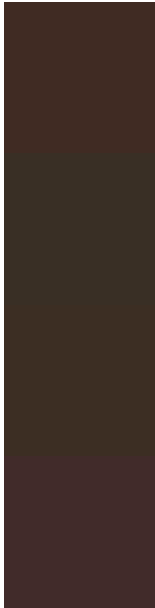
Deuteranopia

20, 10.003, 73.401



Tritanopia
20, 11.479, 12.042

Trichromacy



Original Color

20, 12.450, 46.886

Protanomaly

20, 8.552, 71.688

Deuteranomaly

20, 10.549, 64.625

Tritanomaly

20, 11.119, 25.287

Monochromacy



Original Color

20, 12.450, 46.886

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 4.426, 47.287

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 12.450, 46.886 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(64, 43, 35)` looks like.

```
.text, #text, p{  
    color:rgb(64, 43, 35)  
}
```

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(64, 43, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 43, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 12.450, 46.886 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(64, 43, 35) }
```

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

```
.border{ border-color:rgb(64, 43, 35) }
```

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

Here you see how a box with a 4 pixel rgb(64, 43, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 43, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 43, 35);  
box-shadow:4px 4px 4px 4px rgb(64, 43, 35)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 12.450, 46.886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 43, 35) }
```

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

```
.background{ background-color: rgb(64, 43,  
35) }
```

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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