

Converting Colors

CIELCh(18, 4.157, 20.296)

Have a look what the booklet for
CIELCh(18, 4.157, 20.296) contains.

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Color

CIELCh(18, 4.422, 20.362)

Conversions

Conversions Part 1

Format	Color
Hex	332A2A
RGB	51, 42, 42
RGB Percent	20%, 16%, 16%
CMY	0.8003, 0.8356, 0.8356
CMYK	0.00, 0.18, 0.18, 0.80
HSL	0°, 10%, 18%
HSV	0°, 18%, 20%
XYZ	2.6022, 2.5180, 2.5314
YIQ	44.6910, 5.3640, 1.9080

Conversions

Conversions Part 2

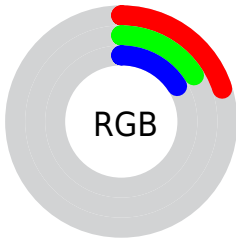
Format	Color
R_{YB}	51, 42, 42
Decimal	3353130
CIE Lab	18.00, 4.15, 1.54
CIE LCh	18, 4.422, 20.362
Yxy	2.5180, 0.3401, 0.3291
Android (android.graphics.Color)	4281543210 (0xFF332A2A)
YUV	44.6910, -1.3267, 5.5330
Hunter-Lab	15.8683, 1.5024, 1.6494

Details

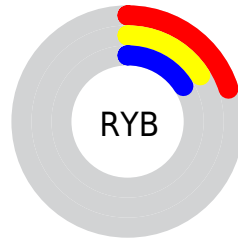
The CIELCh color **18, 4.422, 20.362** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 4.021, 198.678**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 4.326, 19.943**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 7.153, 21.148**, and if you desaturate by 10%, it is **20, 1.857, 19.695**.

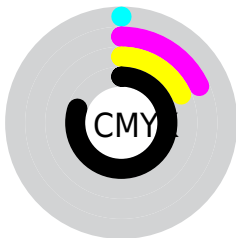
Distribution



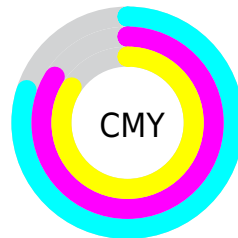
- Red (20%)
- Green (16%)
- Blue (16%)



- Red (20%)
- Yellow (16%)
- Blue (16%)



- Cyan (0%)
- Magenta (18%)
- Yellow (18%)
- Black (80%)



- Cyan (80%)
- Magenta (84%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 4.422, 20.362 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 18, 4.422, 20.362 by changing the saturation by 10% instead.

 18, 4.422, 20.362  18, 4.422, 20.362

 100, 4.422, 20.362  8, 4.422, 20.362

 38, 4.422, 20.362  0, 4.422, 20.362

 48, 4.422, 20.362

 58, 4.422, 20.362

 68, 4.422, 20.362

 78, 4.422, 20.362

 88, 4.422, 20.362

 98, 4.422, 20.362

 18, 4.422, 20.362  18, 4.422, 20.362

16, 7.153, 21.148	20, 1.857, 19.695
15, 10.050, 22.102	22, 0.545, 199.704
13, 13.097, 23.292	23, 2.794, 198.984
11, 16.256, 24.704	25, 4.903, 198.618
10, 19.225, 24.892	27, 6.885, 198.329
9, 21.830, 24.117	29, 8.751, 198.091
8, 24.182, 22.972	31, 10.515, 197.892
7, 26.519, 21.937	33, 12.187, 197.724
6, 27.052, 21.732	35, 13.778, 197.581

Harmonies

Complementary

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



18, 4.422, 20.362



20, 4.021, 198.678

Rectangle

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



18, 4.422, 20.362



18, 4.422, 70.362



18, 4.422, 200.362



18, 4.422, 250.362

Sweetspot

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



18, 4.421, 20.372



27, 1.499, 19.512



18, 7.487, 325.237



12, 1.001, 19.522



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



18, 4.421, 20.372



23, 6.653, 20.698



19, 3.778, 73.577



8, 1.340, 19.531



16, 44.929, 34.017



45, 92.500, 40.001

Inverse Universe

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



20, 4.021, 198.678



27, 5.897, 198.483



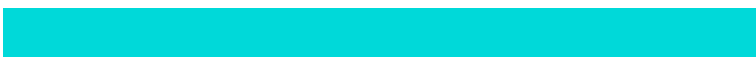
19, 3.639, 257.468



9, 1.285, 199.148



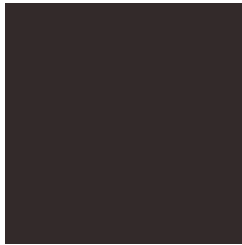
34, 23.295, 196.401



79, 44.322, 196.402

Previews

White Background



This preview shows how the CIELCh color 18, 4.422, 20.362 looks on a white background.

Color Contrast Check

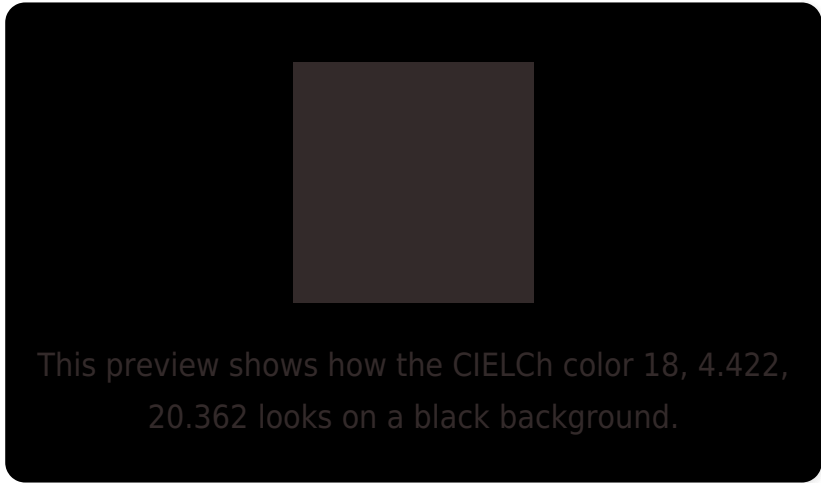
Large Text (above 18pt) WCAG AA ✓ Pass

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

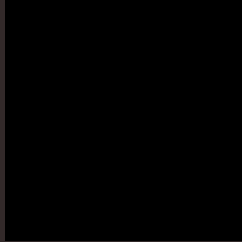
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 4.422, 20.362

Background



This preview shows how black text looks on a background with the CIELCh color 18, 4.422, 20.362.

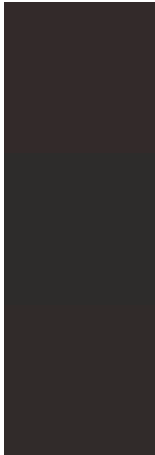


This preview shows how white text looks on a background with the CIELCh color 18, 4.422, 20.362.

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

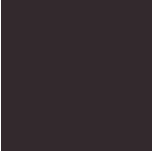
18, 4.422, 20.362

Protanopia

18, 0.833, 74.827

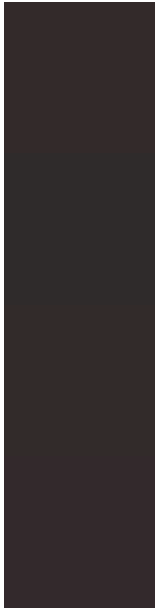
Deuteranopia

18, 3.012, 33.113



Tritanopia
18, 5.543, 350.937

Trichromacy



Original Color

18, 4.422, 20.362

Protanomaly

18, 1.930, 19.734

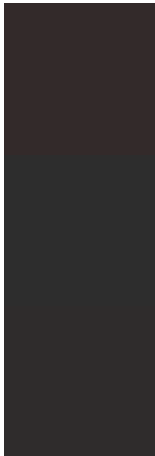
Deuteranomaly

18, 3.500, 31.355

Tritanomaly

18, 5.262, 357.562

Monochromacy



Original Color

18, 4.422, 20.362

Achromatopsia

18, 0.003, 296.813

Achromatomaly

18, 1.438, 19.584

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 4.422, 20.362 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(51, 42, 42)` looks like.

```
.text, #text, p{  
    color:rgb(51, 42, 42)  
}
```

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(51, 42, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 42, 42) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 4.422, 20.362 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(51, 42, 42) }
```

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

```
.border{ border-color:rgb(51, 42, 42) }
```

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

Here you see how a box with a 4 pixel rgb(51, 42, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 42, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 42, 42);  
box-shadow:4px 4px 4px 4px rgb(51, 42, 42)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 4.422, 20.362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 42, 42) }
```

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

```
.background{ background-color: rgb(51, 42,  
42) }
```

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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