

Converting Colors

CIELCh(18, 20.000, 133.302)

Have a look what the booklet for
CIELCh(18, 20.000, 133.302)
contains.

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Color

CIELCh(18, 20.400, 133.534)

Conversions

Conversions Part 1

Format	Color
Hex	1E3116
RGB	30, 49, 22
RGB Percent	12%, 19%, 9%
CMY	0.8828, 0.8083, 0.9142
CMYK	0.39, 0.00, 0.55, 0.81
HSL	102°, 38%, 14%
HSV	102°, 55%, 19%
XYZ	1.7688, 2.5180, 1.1461
YIQ	40.2410, -2.6570, -12.4250

Conversions

Conversions Part 2

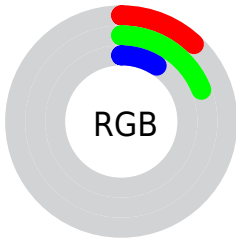
Format	Color
R_{YB}	22, 49, 41
Decimal	1978646
CIE Lab	18.00, -14.05, 14.79
CIE LCh	18, 20.400, 133.534
Yxy	2.5180, 0.3256, 0.4635
Android (android.graphics.Color)	4280168726 (0xFF1E3116)
YUV	40.2410, -8.9928, -8.9814
Hunter-Lab	15.8683, -7.8726, 6.8255

Details

The CIELCh color **18, 20.400, 133.534** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **11, 21.081, 317.784**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 20.283, 133.302**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 23.826, 133.106**, and if you desaturate by 10%, it is **18, 16.816, 134.002**.

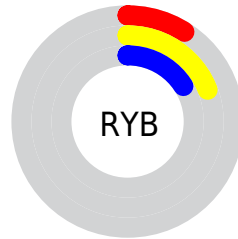
Distribution



Red (12%)

Green (19%)

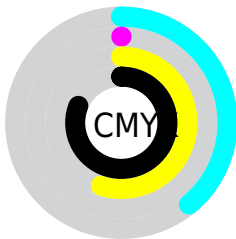
Blue (9%)



Red (9%)

Yellow (19%)

Blue (16%)

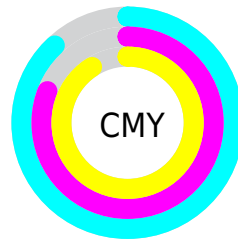


Cyan (39%)

Magenta (0%)

Yellow (55%)

Black (81%)



Cyan (88%)

Magenta (81%)

Yellow (91%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 20.400, 133.534 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, 20.400, 133.534 by changing the saturation by 10% instead.

■ 18, 20.400,
133.534

■ 18, 20.400,
133.534

■ 100, 20.400,
133.534

■ 8, 20.400, 133.534

■ 38, 20.400,
133.534

■ 0, 20.400, 133.534

■ 48, 20.400,
133.534


■ 58, 20.400,
133.534


■ 68, 20.400,
133.534


■ 78, 20.400,
133.534


■ 88, 20.400,


133.534


 98, 20.400,
133.534


 18, 20.400,
133.534


 18, 20.400,
133.534

 18, 23.826,
133.106


 18, 16.816,
134.002

 17, 26.819,
133.142


 19, 13.138,
134.463

 17, 29.361,
133.519

 19, 9.411, 134.903

 17, 31.832,
133.752

 20, 5.668, 135.315

 17, 33.001,
133.803

 20, 1.935, 135.711

 21, 1.769, 315.974

■ 21, 5.429, 316.302

■ 22, 9.035, 316.577

■ 22, 12.581,
316.818

Harmonies

Complementary

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



18, 20.400, 133.534



11, 21.081, 317.784

Rectangle

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



18, 20.400, 133.534



18, 20.400, 183.534



18, 20.400, 313.534



18, 20.400, 3.534

Sweetspot

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



18, 20.400, 133.535



26, 7.919, 135.206



17, 13.766, 87.782



12, 5.354, 135.200



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, 20.400, 133.535



24, 29.956, 132.908



18, 19.409, 146.570



9, 2.125, 135.609



33, 53.060, 132.245



76, 102.315, 133.352

Inverse Universe

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



11, 21.081, 317.784



13, 31.150, 318.166



12, 19.417, 333.555



8, 2.140, 316.120



14, 55.423, 318.154



41, 105.907, 317.388

Previews

White Background



This preview shows how the CIE LCh color 18, 20.400, 133.534 looks on a white background.

Color Contrast Check

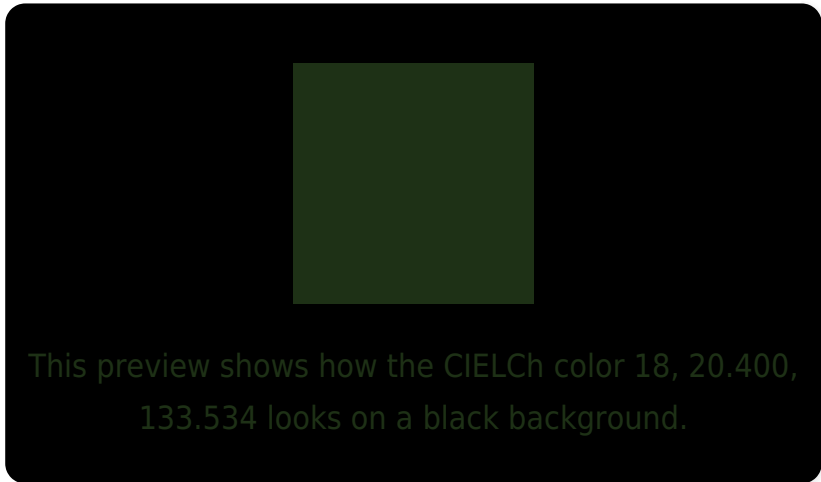
Large Text (above 18pt) WCAG AA ✓ Pass

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

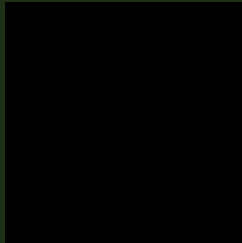
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 20.400, 133.534

Background



This preview shows how black text looks on a background with the CIELCh color 18, 20.400, 133.534.



This preview shows how white text looks on a background with the CIELCh color 18, 20.400, 133.534.

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, 20.400, 133.534

Protanopia

18, 16.396, 96.332

Deuteranopia

18, 14.084, 79.125



Tritanopia
18, 5.421, 229.372

Trichromacy



Original Color
18, 20.400, 133.534

Protanomaly
18, 16.835, 113.232

Deuteranomaly
18, 14.821, 106.363

Tritanomaly
18, 8.160, 161.457

Monochromacy



Original Color
18, 20.400, 133.534

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 7.774, 134.895

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 20.400, 133.534 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(30, 49, 22)` looks like.

```
.text, #text, p{  
    color:rgb(30, 49, 22)  
}
```

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(30, 49, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 49, 22) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 20.400, 133.534 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(30, 49, 22) }
```

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

```
.border{ border-color:rgb(30, 49, 22) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 49, 22)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 49, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 49, 22);  
box-shadow:4px 4px 4px 4px rgb(30, 49, 22)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 20.400, 133.534 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 49, 22) }
```

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

```
.background{ background-color: rgb(30, 49,  
22) }
```

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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