

# Converting Colors

CIELCh(19, 19.815, 136.565)

Have a look what the booklet for  
CIELCh(19, 19.815, 136.565)  
contains.

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# Color

**CIELCh(19, 19.413, 136.509)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1F331A
RGB	31, 51, 26
RGB Percent	12%, 20%, 10%
CMY	0.8780, 0.7995, 0.8976
CMYK	0.39, 0.00, 0.49, 0.80
HSL	108°, 32%, 15%
HSV	108°, 49%, 20%
XYZ	1.9457, 2.7468, 1.4116
YIQ	42.1700, -3.8950, -12.0150

# Conversions

## Conversions Part 2

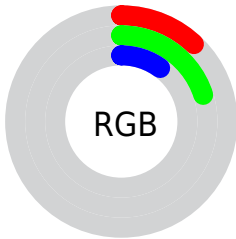
<b>Format</b>	<b>Color</b>
<b>RYB</b>	26, 51, 46
Decimal	2044698
CIELab	19.00, -14.08, 13.36
CIELCh	19, 19.413, 136.509
Yxy	2.7468, 0.3188, 0.4500
Android (android.graphics.Color)	4280234778 (0xFF1F331A)
YUV	42.1700, -7.9718, -9.7961
Hunter-Lab	16.5735, -8.0479, 6.5515

# Details

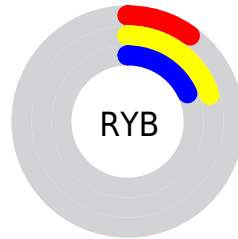
The CIELCh color **19, 19.413, 136.509** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **13, 19.754, 320.590**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 19.528, 137.028**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 23.176, 135.939**, and if you desaturate by 10%, it is **19, 15.517, 137.062**.

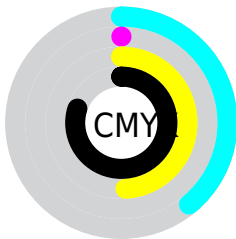
# Distribution



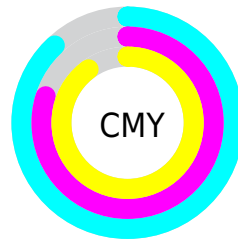
- Red (12%)
- Green (20%)
- Blue (10%)



- Red (10%)
- Yellow (20%)
- Blue (18%)



- Cyan (39%)
- Magenta (0%)
- Yellow (49%)
- Black (80%)



- Cyan (88%)
- Magenta (80%)
- Yellow (90%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 19.413, 136.509 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 19, 19.413, 136.509 by changing the saturation by 10% instead.



■ 19, 19.413,  
136.509

■ 19, 19.413,  
136.509

■ 100, 19.413,  
136.509

■ 9, 19.413, 136.509

■ 39, 19.413,  
136.509

■ 0, 19.413, 136.509

■ 49, 19.413,  
136.509


■ 59, 19.413,  
136.509


■ 69, 19.413,  
136.509


■ 79, 19.413,  
136.509


■ 89, 19.413,


136.509

 99, 19.413,  
136.509


 19, 19.413,  
136.509


 19, 19.413,  
136.509

 19, 23.176,  
135.939


 19, 15.517,  
137.062

 18, 26.715,  
135.412

 20, 11.544,  
137.579


 18, 29.735,  
135.349

 20, 7.540, 138.054

 18, 32.347,  
135.471

 21, 3.540, 138.490

 21, 0.430, 318.659

 18, 34.883,  
135.375

 22, 4.350, 319.163

■ 18, 35.152,  
135.352

■ 23, 8.207, 319.466

■ 23, 11.990,  
319.729

■ 24, 15.693,  
319.957

# Harmonies

# Complementary

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



19, 19.413, 136.509



13, 19.754, 320.590

# Rectangle

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



19, 19.413, 136.509



19, 19.413, 186.509



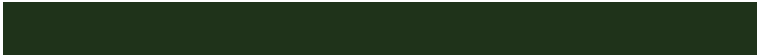
19, 19.413, 316.509



19, 19.413, 6.509

# Sweetspot

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



19, 19.414, 136.510



27, 7.426, 138.194



19, 13.569, 94.467



12, 4.957, 138.179



66, 0.008, 296.813



13, 0.003, 296.813





# Same Dimension

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



19, 19.414, 136.510



25, 28.751, 135.761



19, 16.855, 150.052



9, 2.186, 138.544



33, 54.136, 133.887



76, 104.153, 134.749



# Inverse Universe

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



13, 19.754, 320.590



16, 29.319, 320.982



13, 17.011, 336.630



8, 2.197, 319.085



16, 54.642, 321.196



44, 104.206, 320.626



# Previews

## White Background



This preview shows how the CIELCh color 19, 19.413, 136.509 looks on a white background.

## Color Contrast Check

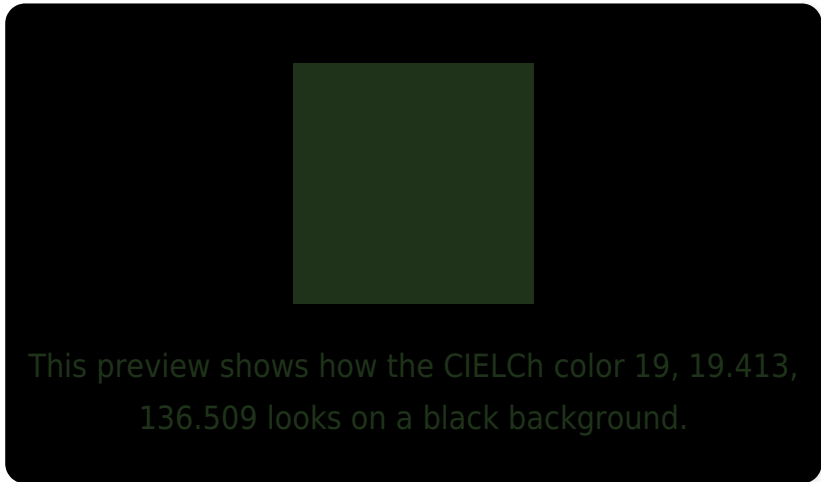
Large Text (above 18pt) WCAG AA ✓ Pass

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 19, 19.413, 136.509**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 19, 19.413, 136.509.



This preview shows how white text looks on a background with the CIELCh color 19, 19.413, 136.509.

# 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**  
19, 19.413, 136.509

**Protanopia**  
19, 15.050, 96.103

**Deuteranopia**  
19, 12.781, 77.097





**Tritanopia**  
19, 5.747, 227.209

# Trichromacy



**Original Color**  
19, 19.413, 136.509

**Protanomaly**  
19, 15.502, 114.171

**Deuteranomaly**  
19, 13.450, 106.811

**Tritanomaly**  
19, 8.046, 167.002

# Monochromacy



**Original Color**  
19, 19.413, 136.509

**Achromatopsia**  
17, 0.003, 296.813

**Achromatomaly**  
18, 7.108, 137.382

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 19, 19.413, 136.509 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(31, 51, 26)` looks like.

```
.text, #text, p{  
    color:rgb(31, 51, 26)  
}
```

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(31, 51, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 51, 26) }
```

## Border

The CSS property to change the border of an element to CIELCh 19, 19.413, 136.509 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(31, 51, 26) }
```

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

```
.border{ border-color:rgb(31, 51, 26) }
```

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

Here you see how a box with a 4 pixel rgb(31, 51, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 51, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 51, 26);  
box-shadow:4px 4px 4px 4px rgb(31, 51, 26)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 19, 19.413, 136.509 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 51, 26) }
```

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

```
.background{ background-color: rgb(31, 51,  
26) }
```

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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