

# Converting Colors

CIELCh(18, 10.197, 90.324)

Have a look what the booklet for  
CIELCh(18, 10.197, 90.324) contains.

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# Color

**CIELCh(18, 10.595, 93.085)**

# Conversions

## Conversions Part 1

Format	Color
Hex	312C1D
RGB	49, 44, 29
RGB Percent	19%, 17%, 11%
CMY	0.8088, 0.8284, 0.8872
CMYK	0.00, 0.10, 0.41, 0.81
HSL	45°, 26%, 15%
HSV	45°, 41%, 19%
XYZ	2.3655, 2.5180, 1.5091
YIQ	43.7850, 7.7950, -3.6050

# Conversions

## Conversions Part 2

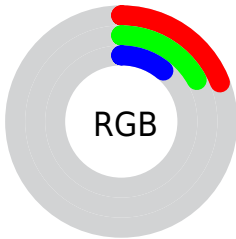
<b>Format</b>	<b>Color</b>
<b>RYB</b>	36, 49, 29
Decimal	3222557
CIELab	18.00, -0.57, 10.58
CIElCh	18, 10.595, 93.085
Yxy	2.5180, 0.3700, 0.3939
Android (android.graphics.Color)	4281412637 (0xFF312C1D)
YUV	43.7850, -7.2890, 4.5736
Hunter-Lab	15.8683, -1.1606, 5.4694

# Details

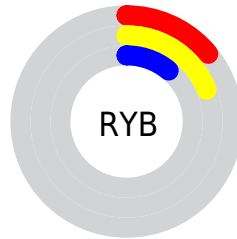
The CIELCh color **18, 10.595, 93.085** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **13, 10.866, 282.388**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 10.297, 90.579**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **17, 13.201, 92.018**, and if you desaturate by 10%, it is **19, 7.984, 94.140**.

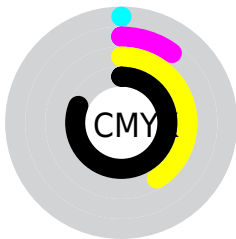
# Distribution



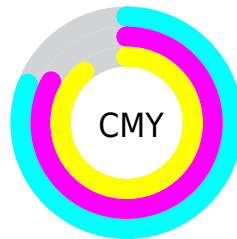
- Red (19%)
- Green (17%)
- Blue (11%)



- Red (14%)
- Yellow (19%)
- Blue (11%)



- Cyan (0%)
- Magenta (10%)
- Yellow (41%)
- Black (81%)



- Cyan (81%)
- Magenta (83%)
- Yellow (89%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 18, 10.595, 93.085 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, 10.595, 93.085 by changing the saturation by 10% instead.



 18, 10.595, 93.085

 18, 10.595, 93.085

 100, 10.595,  
93.085

 8, 10.595, 93.085

 38, 10.595, 93.085

 0, 10.595, 93.085

 48, 10.595, 93.085

 58, 10.595, 93.085

 68, 10.595, 93.085

 78, 10.595, 93.085

 88, 10.595, 93.085

 98, 10.595, 93.085

■ 18, 10.595, 93.085

■ 18, 10.595, 93.085

■ 17, 13.201, 92.018

■ 19, 7.984, 94.140

■ 17, 15.772, 90.926

■ 19, 5.383, 95.165

■ 17, 17.967, 89.808

■ 20, 2.802, 96.156

■ 16, 19.587, 88.599

■ 20, 0.246, 96.871

■ 16, 21.012, 87.457

■ 21, 2.282, 278.129

■ 15, 22.297, 86.561

■ 21, 4.781, 279.023

■ 22, 7.252, 279.894

■ 22, 9.695, 280.732

■ 23, 12.112,  
281.537

# Harmonies

# Complementary

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



18, 10.595, 93.085



13, 10.866, 282.388

# Rectangle

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



18, 10.595, 93.085



18, 10.595, 143.085



18, 10.595, 273.085



18, 10.595, 323.085

# Sweetspot

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



18, 10.595, 93.090



26, 3.839, 95.992



13, 10.717, 3.465



12, 2.574, 95.992



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, 10.595, 93.090



24, 15.896, 91.938



19, 13.642, 117.778



9, 1.460, 96.418



30, 39.156, 85.018



70, 74.101, 83.198





# Inverse Universe

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



13, 10.866, 282.388



17, 16.476, 284.240



12, 14.686, 302.525



8, 1.471, 278.116



11, 47.686, 298.234

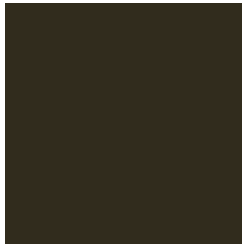


33, 98.581, 300.933



# Previews

## White Background



This preview shows how the CIE LCh color 18, 10.595, 93.085 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 18, 10.595, 93.085 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

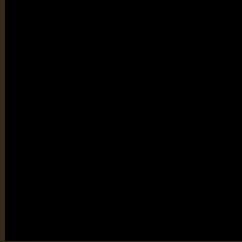
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 18, 10.595, 93.085

## Background



This preview shows how black text looks on a background with the CIELCh color 18, 10.595, 93.085.

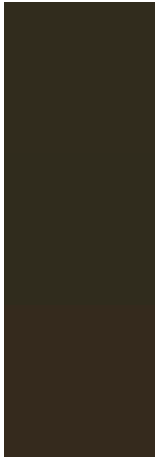


This preview shows how white text looks on a background with the CIELCh color 18, 10.595, 93.085.

# 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, 10.595, 93.085

### Protanopia

18, 10.469, 95.899

### Deuteranopia

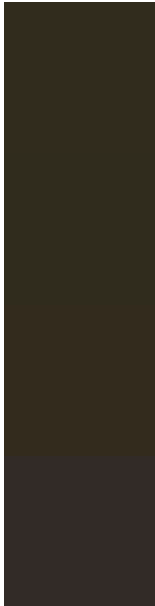
18, 10.790, 74.840



**Tritanopia**  
18, 4.365, 352.197



# Trichromacy



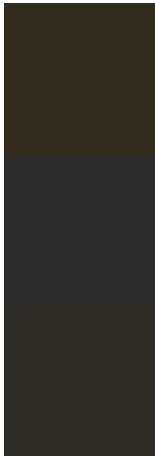
**Original Color**  
18, 10.595, 93.085

**Protanomaly**  
18, 10.469, 95.899

**Deuteranomaly**  
18, 10.544, 83.889

**Tritanomaly**  
18, 4.464, 57.785

# Monochromacy



**Original Color**  
18, 10.595, 93.085

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
18, 4.238, 95.531

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 18, 10.595, 93.085 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(49, 44, 29)` looks like.

```
.text, #text, p{  
    color:rgb(49, 44, 29)  
}
```

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(49, 44, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 44, 29) }
```

## Border

The CSS property to change the border of an element to CIELCh 18, 10.595, 93.085 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(49, 44, 29) }
```

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

```
.border{ border-color:rgb(49, 44, 29) }
```

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

Here you see how a box with a 4 pixel rgb(49, 44, 29) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 44, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 44, 29);  
box-shadow:4px 4px 4px 4px rgb(49, 44, 29)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 18, 10.595, 93.085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 44, 29) }
```

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

```
.background{ background-color: rgb(49, 44,  
29) }
```

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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