

# Converting Colors

CIELCh(17, 2.234, 16.876)

Have a look what the booklet for  
CIELCh(17, 2.234, 16.876) contains.

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# Color

**CIELCh(17, 1.945, 19.753)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2D2929
RGB	45, 41, 41
RGB Percent	18%, 16%, 16%
CMY	0.8236, 0.8393, 0.8393
CMYK	0.00, 0.09, 0.09, 0.82
HSL	0°, 5%, 17%
HSV	0°, 9%, 18%
XYZ	2.2739, 2.3023, 2.4210
YIQ	42.1960, 2.3840, 0.8480

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	45, 41, 41
Decimal	2959657
CIELab	17.00, 1.83, 0.66
CIElCh	17, 1.945, 19.753
Yxy	2.3023, 0.3250, 0.3290
Android (android.graphics.Color)	4281149737 (0xFF2D2929)
YUV	42.1960, -0.5896, 2.4591
Hunter-Lab	15.1734, 0.1963, 1.1615

# Details

The CIELCh color **17, 1.945, 19.753** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **18, 1.858, 199.135**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 2.148, 19.569**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 4.266, 20.432**, and if you desaturate by 10%, it is **19, 0.234, 200.221**.

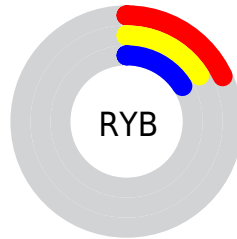
# Distribution



Red (18%)

Green (16%)

Blue (16%)



Red (18%)

Yellow (16%)

Blue (16%)

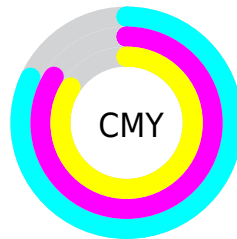


Cyan (0%)

Magenta (9%)

Yellow (9%)

Black (82%)



Cyan (82%)

Magenta (84%)

Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 17, 1.945, 19.753 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 17, 1.945, 19.753 by changing the saturation by 10% instead.



■ 17, 1.945, 19.753      ■ 17, 1.945, 19.753

100, 1.945, 19.753      ■ 7, 1.945, 19.753

■ 37, 1.945, 19.753      ■ 0, 1.945, 19.753

■ 47, 1.945, 19.753

■ 57, 1.945, 19.753

■ 67, 1.945, 19.753

■ 77, 1.945, 19.753

■ 87, 1.945, 19.753

■ 97, 1.945, 19.753

■ 17, 1.945, 19.753      ■ 17, 1.945, 19.753

15, 4.266, 20.432

19, 0.234, 200.221

14, 6.734, 21.194

20, 2.278, 199.063

12, 9.347, 22.127

22, 4.198, 198.689

11, 12.091, 23.283

24, 6.004, 198.396

9, 14.804, 23.526

25, 7.707, 198.155

8, 17.304, 22.518

27, 9.317, 197.953

7, 19.423, 21.397

29, 10.845,  
197.783

6, 21.261, 20.660

30, 12.298,  
197.637

5, 23.005, 20.127

32, 13.686,  
197.512

# Harmonies

# Complementary

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



17, 1.945, 19.753



18, 1.858, 199.135

# Rectangle

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



17, 1.945, 19.753



17, 1.945, 69.753



17, 1.945, 199.753



17, 1.945, 249.753

# Sweetspot

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



17, 1.944, 19.773



24, 0.806, 19.292



17, 3.380, 324.810



11, 0.619, 19.346



65, 0.008, 296.813



12, 0.003, 296.813



# Same Dimension

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



17, 1.944, 19.773



22, 3.035, 19.951



18, 1.681, 74.466



7, 1.112, 19.322



16, 43.792, 33.545



45, 91.679, 40.002





# Inverse Universe

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



18, 1.858, 199.135



24, 2.859, 198.992



17, 1.656, 256.419



7, 1.112, 199.544



33, 22.830, 196.420



78, 43.921, 196.423



# Previews

## White Background



This preview shows how the CIELCh color 17, 1.945, 19.753 looks on a white background.

## Color Contrast Check

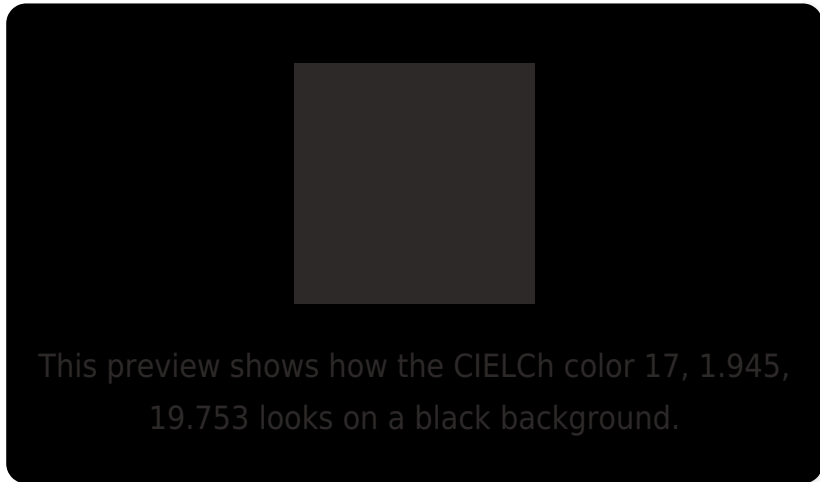
Large Text (above 18pt) WCAG AA ✓ Pass

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

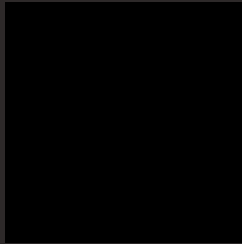
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

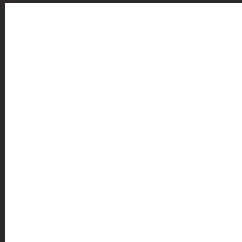
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 17, 1.945, 19.753**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 17, 1.945, 19.753.

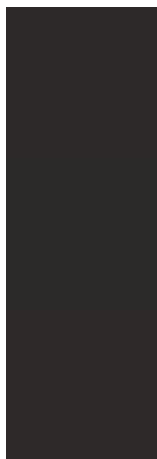


This preview shows how white text looks on a background with the CIELCh color 17, 1.945, 19.753.

# 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


17, 1.945, 19.753

### Protanopia

17, 0.839, 74.817

### Deuteranopia

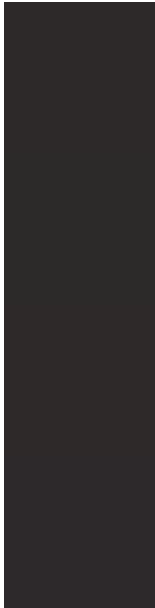
17, 2.439, 19.886



**Tritanopia**  
17, 2.838, 332.766



# Trichromacy



## Original Color

17, 1.945, 19.753

## Protanomaly

17, 1.185, 55.118

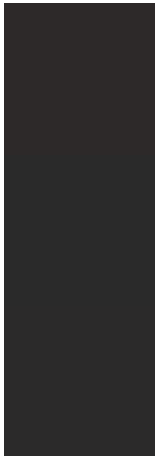
## Deuteranomaly

17, 2.439, 19.886

## Tritanomaly

17, 2.378, 344.188

# Monochromacy



## Original Color

17, 1.945, 19.753

## Achromatopsia

17, 0.003, 296.813

## Achromatomaly

17, 0.480, 19.119

# CSS Examples

## Text

The CSS property to change the color of the text to CIElCh 17, 1.945, 19.753 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(45, 41, 41)` looks like.

```
.text, #text, p{  
    color:rgb(45, 41, 41)  
}
```

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(45, 41, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 41, 41) }
```

## Border

The CSS property to change the border of an element to CIELCh 17, 1.945, 19.753 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(45, 41, 41) }
```

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

```
.border{ border-color:rgb(45, 41, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 41, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 41, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 41, 41);  
box-shadow:4px 4px 4px 4px rgb(45, 41, 41)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 17, 1.945, 19.753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 41, 41) }
```

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

```
.background{ background-color: rgb(45, 41,  
41) }
```

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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