

# Converting Colors

CIELCh(17, 22.788, 19.796)

Have a look what the booklet for  
CIELCh(17, 22.788, 19.796) contains.

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# Color

**CIELCh(17, 22.773, 19.560)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	481C20
RGB	72, 28, 32
RGB Percent	28%, 11%, 13%
CMY	0.7181, 0.8906, 0.8749
CMYK	0.00, 0.61, 0.56, 0.72
HSL	355°, 44%, 20%
HSV	355°, 61%, 28%
XYZ	3.3356, 2.3023, 1.6281
YIQ	41.6120, 24.9400, 10.5720

# Conversions

## Conversions Part 2

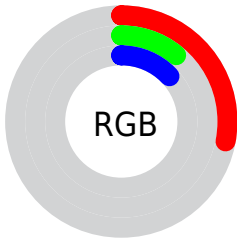
Format	Color
<a href="#">RYB</a>	<a href="#">72, 28, 32</a>
Decimal	<a href="#">4725792</a>
CIELab	<a href="#">17.00, 21.46, 7.62</a>
CIELCh	<a href="#">17, 22.773, 19.560</a>
Yxy	<a href="#">2.3023, 0.4591, 0.3169</a>
Android (android.graphics.Color)	<a href="#">4282915872 (0xFF481C20)</a>
YUV	<a href="#">41.6120, -4.7387, 26.6503</a>
Hunter-Lab	<a href="#">15.1734, 12.6866, 4.2597</a>

# Details

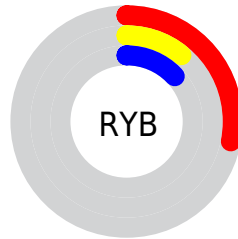
The CIELCh color **17, 22.773, 19.560** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **28, 16.382, 187.663**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 22.897, 18.656**, and **1, 6.390, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **15, 26.757, 22.053**, and if you desaturate by 10%, it is **19, 18.737, 17.556**.

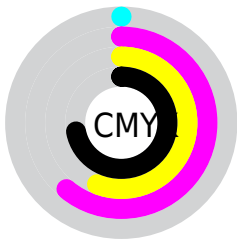
# Distribution



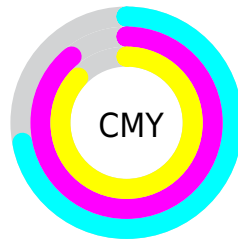
- Red (28%)
- Green (11%)
- Blue (13%)



- Red (28%)
- Yellow (11%)
- Blue (13%)



- Cyan (0%)
- Magenta (61%)
- Yellow (56%)
- Black (72%)



- Cyan (72%)
- Magenta (89%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 17, 22.773, 19.560 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, 22.773, 19.560 by changing the saturation by 10% instead.



 17, 22.773, 19.560

 17, 22.773, 19.560

 100, 22.773,  
19.560

 7, 22.773, 19.560

 37, 22.773, 19.560

 0, 22.773, 19.560

 47, 22.773, 19.560

 57, 22.773, 19.560

 67, 22.773, 19.560

 77, 22.773, 19.560

 87, 22.773, 19.560

 97, 22.773, 19.560

■ 17, 22.773, 19.560

■ 17, 22.773, 19.560

■ 15, 26.757, 22.053

■ 19, 18.737, 17.556

■ 14, 30.508, 24.807

■ 21, 14.750, 15.941

■ 13, 33.578, 26.343

■ 23, 10.886, 14.630

■ 12, 36.134, 26.261

■ 25, 7.190, 13.551

■ 28, 3.686, 12.633

■ 30, 0.381, 11.282

■ 33, 2.730, 191.425

■ 35, 5.657, 190.834

■ 38, 8.415, 190.347

# Harmonies

# Complementary

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



17, 22.773, 19.560



28, 16.382, 187.663

# Rectangle

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



17, 22.773, 19.560



17, 22.773, 69.560



17, 22.773, 199.560



17, 22.773, 249.560

# Sweetspot

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



17, 22.772, 19.563



35, 7.598, 13.313



18, 32.810, 324.165



16, 5.350, 13.473



72, 0.009, 296.813



20, 0.004, 296.813



# Same Dimension

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



17, 22.772, 19.563



21, 34.450, 23.434



21, 19.004, 58.646



13, 1.811, 12.405



19, 47.599, 31.944



47, 91.909, 36.855





# Inverse Universe

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



17, 22.772, 19.563



21, 34.450, 23.434



21, 14.516, 253.809



13, 1.811, 12.405



19, 47.599, 31.944

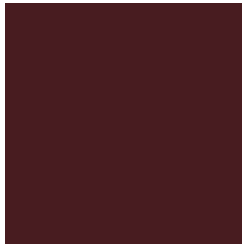


47, 91.909, 36.855



# Previews

## White Background



This preview shows how the CIELCh color 17, 22.773, 19.560 looks on a white background.

## Color Contrast Check

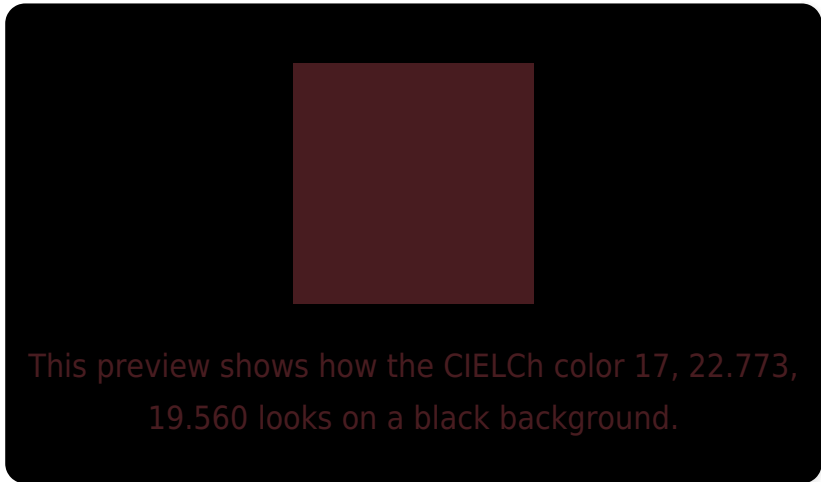
Large Text (above 18pt) WCAG AA ✓ Pass

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

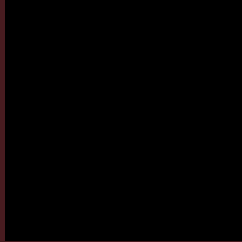
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 17, 22.773, 19.560**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 17, 22.773, 19.560.



This preview shows how white text looks on a background with the CIELCh color 17, 22.773, 19.560.

# 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, 22.773, 19.560

**Protanopia**

18, 2.925, 89.750

**Deuteranopia**

17, 9.340, 73.560



**Tritanopia**  
17, 23.063, 22.902



# Trichromacy



**Original Color**  
17, 22.773, 19.560

**Protanomaly**  
17, 8.893, 30.261

**Deuteranomaly**  
17, 12.883, 37.493

**Tritanomaly**  
17, 22.907, 21.243

# Monochromacy



**Original Color**  
17, 22.773, 19.560

**Achromatopsia**  
17, 0.003, 296.813

**Achromatomaly**  
17, 8.103, 16.544

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 17, 22.773, 19.560 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(72, 28, 32)` looks like.

```
.text, #text, p{  
    color:rgb(72, 28, 32)  
}
```

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(72, 28, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 28, 32) }
```

## Border

The CSS property to change the border of an element to CIELCh 17, 22.773, 19.560 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(72, 28, 32) }
```

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

```
.border{ border-color:rgb(72, 28, 32) }
```

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

Here you see how a box with a 4 pixel rgb(72, 28, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 28, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 28, 32);  
box-shadow:4px 4px 4px 4px rgb(72, 28, 32)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 17, 22.773, 19.560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 28, 32) }
```

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

```
.background{ background-color: rgb(72, 28,  
32) }
```

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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