

# Converting Colors

CIELCh(28, 3.138, 22.729)

Have a look what the booklet for  
CIELCh(28, 3.138, 22.729) contains.

<b>CIELCh(28, 2.801, 33.046)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(28, 2.801, 33.046)**

# Conversions

## Conversions Part 1

Format	Color
Hex	474140
RGB	71, 65, 64
RGB Percent	28%, 25%, 25%
CMY	0.7224, 0.7459, 0.7498
CMYK	0.00, 0.08, 0.10, 0.72
HSL	9°, 5%, 26%
HSV	9°, 10%, 28%
XYZ	5.3821, 5.4574, 5.5904
YIQ	66.6800, 3.8970, 0.9610

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	71, 65, 64
Decimal	4669760
CIE Lab	28.00, 2.35, 1.53
CIE LCh	28, 2.801, 33.046
Yxy	5.4574, 0.3276, 0.3322
Android (android.graphics.Color)	4282859840 (0xFF474140)
YUV	66.6800, -1.3212, 3.7886
Hunter-Lab	23.3610, 0.2425, 2.1643

# Details

The CIELCh color **28, 2.801, 33.046** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **29, 2.647, 213.207**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 2.528, 32.959**, and **8, 2.774, 35.114** is the 20% darker color. If you saturate the color by 10%, you get **26, 5.847, 33.272**, and if you desaturate by 10%, it is **30, 0.033, 221.060**.

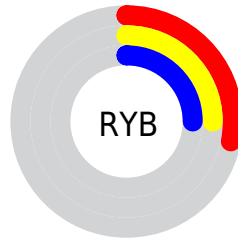
# Distribution



 Red (28%)

 Green (25%)

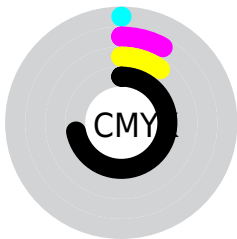
 Blue (25%)



 Red (28%)

 Yellow (25%)

 Blue (25%)

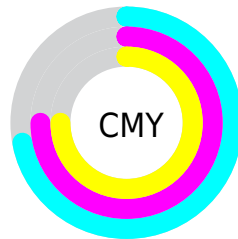


 Cyan (0%)

 Magenta (8%)

 Yellow (10%)

 Black (72%)



 Cyan (72%)

 Magenta (75%)

 Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 2.801, 33.046 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 28, 2.801, 33.046 by changing the saturation by 10% instead.



■ 28, 2.801, 33.046      ■ 28, 2.801, 33.046

■ 100, 2.801, 33.046      ■ 18, 2.801, 33.046

■ 48, 2.801, 33.046      ■ 8, 2.801, 33.046

■ 58, 2.801, 33.046      ■ 0, 2.801, 33.046

■ 68, 2.801, 33.046

■ 78, 2.801, 33.046

■ 88, 2.801, 33.046

■ 98, 2.801, 33.046

■ 28, 2.801, 33.046      ■ 28, 2.801, 33.046

■ 26, 5.847, 33.272      ■ 30, 0.033, 221.060

24, 9.122, 33.565	32, 2.671, 213.210
22, 12.634, 34.002	34, 5.131, 213.230
20, 16.382, 34.625	36, 7.433, 213.323
18, 20.348, 35.471	39, 9.594, 213.455
17, 24.492, 36.569	41, 11.628, 213.614
15, 28.355, 36.916	43, 13.551, 213.791
14, 31.452, 36.060	45, 15.376, 213.980
13, 34.184, 35.862	47, 17.112, 214.178

# Harmonies

# Complementary

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



28, 2.801, 33.046



29, 2.647, 213.207

# Rectangle

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



28, 2.801, 33.046



28, 2.801, 83.046



28, 2.801, 213.046



28, 2.801, 263.046

# Sweetspot

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



28, 2.801, 33.067



38, 1.029, 32.805



28, 5.020, 328.797



18, 0.770, 32.854



71, 0.009, 296.813



19, 0.004, 296.813



# Same Dimension

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



28, 2.801, 33.067



36, 4.260, 33.118



29, 3.064, 87.224



13, 1.583, 33.040



20, 47.325, 39.820



49, 93.157, 41.758





# Inverse Universe

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



29, 2.647, 213.207



38, 3.964, 213.204



28, 3.053, 269.566



14, 1.508, 213.215



33, 21.938, 221.423



72, 39.953, 223.574



# Previews

## White Background



This preview shows how the CIELCh color 28, 2.801, 33.046 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 28, 2.801, 33.046 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

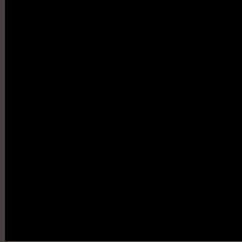
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 28, 2.801, 33.046

## Background



This preview shows how black text looks on a background with the CIELCh color 28, 2.801, 33.046.

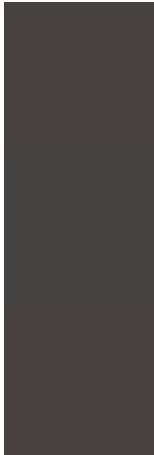


This preview shows how white text looks on a background with the CIELCh color 28, 2.801, 33.046.

# 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


28, 2.801, 33.046

### Protanopia

28, 1.566, 74.682

### Deuteranopia

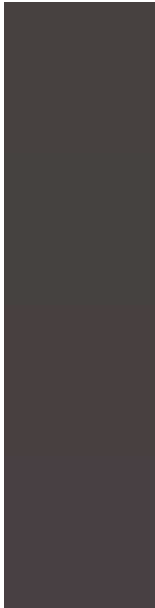
28, 4.110, 20.056



**Tritanopia**  
28, 4.825, 338.181



# Trichromacy



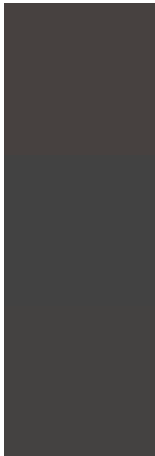
**Original Color**  
28, 2.801, 33.046

**Protanomaly**  
28, 1.864, 63.133

**Deuteranomaly**  
28, 3.646, 19.968

**Tritanomaly**  
28, 4.092, 351.842

# Monochromacy



**Original Color**  
28, 2.801, 33.046

**Achromatopsia**  
28, 0.004, 296.813

**Achromatomaly**  
28, 1.099, 55.184

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 28, 2.801, 33.046 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(71, 65, 64)` looks like.

```
.text, #text, p{  
    color:rgb(71, 65, 64)  
}
```

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(71, 65, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 65, 64) }
```

## Border

The CSS property to change the border of an element to CIELCh 28, 2.801, 33.046 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(71, 65, 64) }
```

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

```
.border{ border-color:rgb(71, 65, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 65, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 65, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 65, 64);  
box-shadow:4px 4px 4px 4px rgb(71, 65, 64)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 28, 2.801, 33.046 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 65, 64) }
```

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

```
.background{ background-color: rgb(71, 65,  
64) }
```

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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