

# Converting Colors

CIELCh(32, 0.691, 178.500)

Have a look what the booklet for  
CIELCh(32, 0.691, 178.500) contains.

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# Color

**CIELCh(32, 1.078, 163.647)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4A4C4B
RGB	74, 76, 75
RGB Percent	29%, 30%, 29%
CMY	0.7108, 0.7029, 0.7069
CMYK	0.03, 0.00, 0.01, 0.70
HSL	150°, 1%, 29%
HSV	150°, 3%, 30%
XYZ	6.6337, 7.0852, 7.6300
YIQ	75.2880, -0.8710, -0.7350

# Conversions

## Conversions Part 2

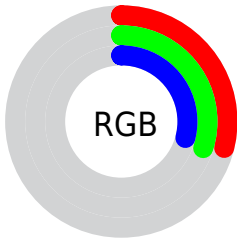
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	74, 75, 76
Decimal	4869195
CIE Lab	32.00, -1.03, 0.30
CIE LCh	32, 1.078, 163.647
Yxy	7.0852, 0.3107, 0.3319
Android (android.graphics.Color)	4283059275 (0xFF4A4C4B)
YUV	75.2880, -0.1420, -1.1296
Hunter-Lab	26.6180, -2.0956, 1.6373

# Details

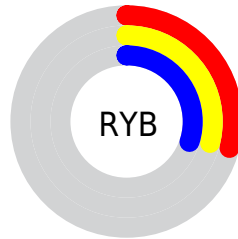
The CIELCh color  $32, 1.078, 163.647$  is a dark color, and the websafe version is hex  $333333$ . A complement of this color would be  $32, 1.089, 343.641$ , and the grayscale version is  $32, 0.005, 296.813$ .

A 20% lighter version of the original color is  $52, 0.986, 163.818$ , and  $12, 1.236, 163.368$  is the 20% darker color. If you saturate the color by 10%, you get  $31, 5.185, 162.714$ , and if you desaturate by 10%, it is  $33, 3.009, 344.076$ .

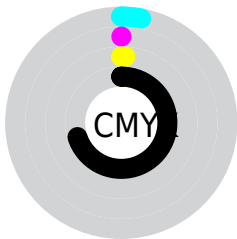
# Distribution



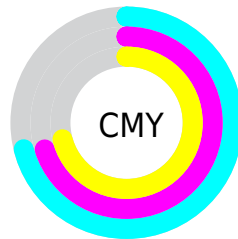
- Red (29%)
- Green (30%)
- Blue (29%)



- Red (29%)
- Yellow (29%)
- Blue (30%)



- Cyan (3%)
- Magenta (0%)
- Yellow (1%)
- Black (70%)



- Cyan (71%)
- Magenta (70%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 32, 1.078, 163.647 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 32, 1.078, 163.647 by changing the saturation by 10% instead.



■ 32, 1.078, 163.647

■ 32, 1.078, 163.647

■ 100, 1.078,  
163.647

■ 22, 1.078, 163.647

■ 52, 1.078, 163.647

■ 12, 1.078, 163.647

■ 62, 1.078, 163.647

■ 2, 1.078, 163.647

■ 72, 1.078, 163.647

■ 0, 1.078, 163.647

■ 82, 1.078, 163.647

■ 92, 1.078, 163.647

■ 32, 1.078, 163.647

■ 32, 1.078, 163.647

■ 31, 5.185, 162.714

■ 33, 3.009, 344.076

31, 9.273, 161.855

34, 7.050, 344.763

30, 13.300,  
160.919

35, 11.024,  
345.376

29, 17.215,  
159.882

36, 14.915,  
345.943

29, 20.963,  
158.726

37, 18.714,  
346.473

28, 24.486,  
157.431

38, 22.415,  
346.971

28, 27.732,  
155.981

39, 26.015,  
347.442

28, 30.660,  
154.362

40, 29.513,  
347.889

28, 33.310,  
152.656

41, 32.912,  
348.313

# Harmonies

# Complementary

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



32, 1.078, 163.647



32, 1.089, 343.641

# Rectangle

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



32, 1.078, 163.647



32, 1.078, 213.647



32, 1.078, 343.647



32, 1.078, 33.647

# Sweetspot

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



32, 1.079, 163.628



42, 0.509, 164.037



32, 1.333, 128.422



21, 0.292, 164.102



73, 0.009, 296.813



21, 0.004, 296.813



# Same Dimension

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



32, 1.079, 163.628



42, 1.537, 163.565



32, 0.865, 198.193



15, 0.921, 163.523



37, 44.179, 150.530



80, 82.847, 148.781





# Inverse Universe

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



32, 1.089, 343.641



41, 1.550, 343.704



32, 0.878, 17.858



15, 0.928, 343.746



20, 43.484, 359.422

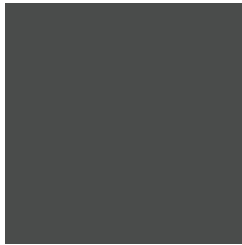


49, 78.181, 2.632



# Previews

## White Background



This preview shows how the CIELCh color 32, 1.078, 163.647 looks on a white background.

## Color Contrast Check

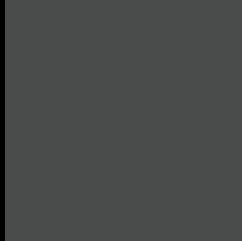
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



This preview shows how the CIE LCh color 32, 1.078, 163.647 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

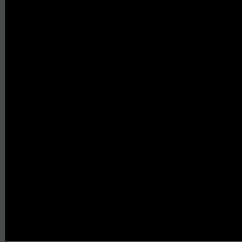
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

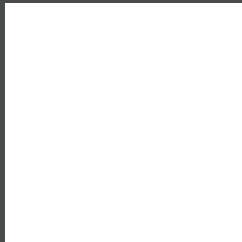
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 32, 1.078, 163.647**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 32, 1.078, 163.647.

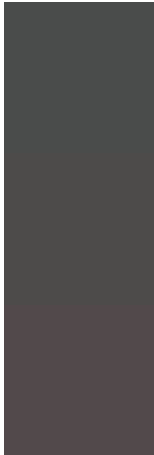


This preview shows how white text looks on a background with the CIELCh color 32, 1.078, 163.647.

# 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


32, 1.078, 163.647

### Protanopia

32, 1.075, 55.191

### Deuteranopia

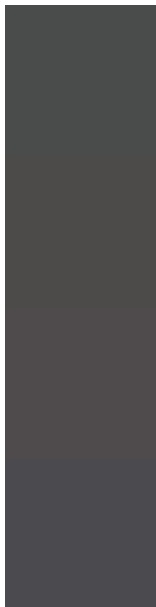
32, 4.180, 2.458



**Tritanopia**  
32, 3.803, 290.863



# Trichromacy



## Original Color

32, 1.078, 163.647

## Protanomaly

32, 0.762, 74.893

## Deuteranomaly

32, 2.292, 3.659

## Tritanomaly

32, 2.537, 290.643

# Monochromacy



## Original Color

32, 1.078, 163.647

## Achromatopsia

32, 0.005, 296.813

## Achromatomaly

32, 0.005, 296.813

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 32, 1.078, 163.647 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(74, 76, 75)` looks like.

```
.text, #text, p{  
    color:rgb(74, 76, 75)  
}
```

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(74, 76, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 76, 75) }
```

## Border

The CSS property to change the border of an element to CIELCh 32, 1.078, 163.647 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(74, 76, 75) }
```

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

```
.border{ border-color:rgb(74, 76, 75) }
```

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

Here you see how a box with a 4 pixel rgb(74, 76, 75) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 76, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 76, 75);  
box-shadow:4px 4px 4px 4px rgb(74, 76, 75)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 32, 1.078, 163.647 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 76, 75) }
```

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

```
.background{ background-color: rgb(74, 76,  
75) }
```

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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