

Converting Colors

CIELCh(32, 1.170, 100.048)

Have a look what the booklet for
CIELCh(32, 1.170, 100.048) contains.

CIELCh(32, 1.331, 90.600)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(32, 1.331, 90.600)

Conversions

Conversions Part 1

Format	Color
Hex	4C4B49
RGB	76, 75, 73
RGB Percent	30%, 29%, 29%
CMY	0.7012, 0.7051, 0.7130
CMYK	0.00, 0.01, 0.04, 0.70
HSL	40°, 2%, 29%
HSV	40°, 4%, 30%
XYZ	6.7329, 7.0852, 7.3483
YIQ	75.0710, 1.2380, -0.4100

Conversions

Conversions Part 2

Format	Color
R_{YB}	75, 76, 73
Decimal	5000009
CIE Lab	32.00, -0.01, 1.33
CIE LCh	32, 1.331, 90.600
Yxy	7.0852, 0.3181, 0.3347
Android (android.graphics.Color)	4283190089 (0xFF4C4B49)
YUV	75.0710, -1.0210, 0.8147
Hunter-Lab	26.6180, -1.4308, 2.2647

Details

The CIELCh color **32, 1.331, 90.600** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **32, 1.339, 271.696**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **52, 1.216, 90.704**, and **12, 0.878, 74.738** is the 20% darker color. If you saturate the color by 10%, you get **31, 4.768, 89.577**, and if you desaturate by 10%, it is **33, 2.040, 271.881**.

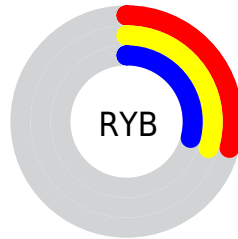
Distribution



 Red (30%)

 Green (29%)

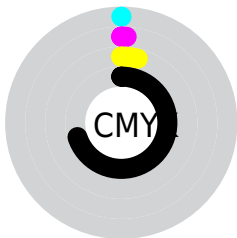
 Blue (29%)



 Red (29%)

 Yellow (30%)

 Blue (29%)

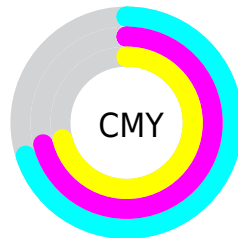


 Cyan (0%)

 Magenta (1%)

 Yellow (4%)

 Black (70%)



 Cyan (70%)

 Magenta (71%)

 Yellow (71%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 32, 1.331, 90.600 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, 1.331, 90.600 by changing the saturation by 10% instead.

■ 32, 1.331, 90.600 ■ 32, 1.331, 90.600

100, 1.331, 90.600 ■ 22, 1.331, 90.600

■ 52, 1.331, 90.600 ■ 12, 1.331, 90.600

■ 62, 1.331, 90.600 ■ 2, 1.331, 90.600

■ 72, 1.331, 90.600 ■ 0, 1.331, 90.600

■ 82, 1.331, 90.600

■ 92, 1.331, 90.600

■ 32, 1.331, 90.600 ■ 32, 1.331, 90.600

■ 31, 4.768, 89.577 ■ 33, 2.040, 271.881

■ 30, 8.270, 88.423 ■ 34, 5.348, 272.895

■ 29, 11.831, 87.229

■ 35, 8.596, 273.894

■ 28, 15.437, 86.002

■ 36, 11.788,
274.855

■ 27, 19.059, 84.741

■ 37, 14.929,
275.774

■ 26, 22.643, 83.438

■ 25, 26.090, 82.073

■ 38, 18.021,
276.650

■ 25, 29.239, 80.603

■ 39, 21.069,
277.484

■ 24, 31.799, 78.999

■ 40, 24.076,
278.278

■ 42, 27.044,
279.031

Harmonies

Complementary

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



32, 1.331, 90.600



32, 1.339, 271.696

Rectangle

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



32, 1.331, 90.600



32, 1.331, 140.600



32, 1.331, 270.600



32, 1.331, 320.600

Sweetspot

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



32, 1.332, 90.641



42, 0.416, 90.704



31, 1.469, 353.856



21, 0.238, 90.674



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, 1.332, 90.641



42, 2.111, 90.524



32, 1.905, 116.453



15, 1.138, 90.523



32, 42.182, 77.390



69, 76.200, 75.253

Inverse Universe

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



32, 1.339, 271.696



41, 2.119, 271.820



31, 1.928, 296.963



15, 1.142, 271.821



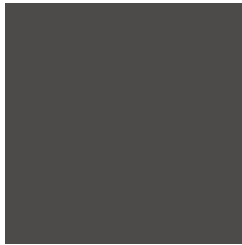
16, 47.075, 294.485



39, 91.729, 297.138

Previews

White Background



This preview shows how the CIELCh color 32, 1.331, 90.600 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, 1.331, 90.600 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

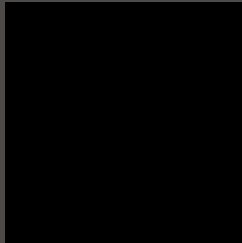
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 32, 1.331, 90.600

Background



This preview shows how black text looks on a background with the CIELCh color 32, 1.331, 90.600.

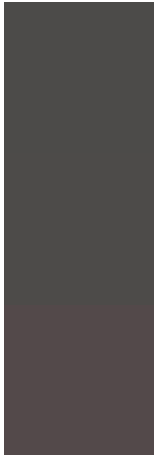


This preview shows how white text looks on a background with the CIELCh color 32, 1.331, 90.600.

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, 1.331, 90.600

Protanopia

32, 1.532, 74.733

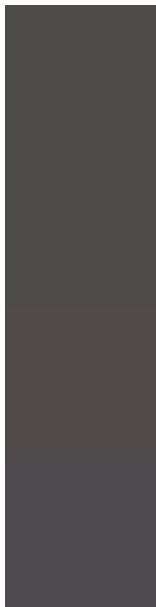
Deuteranopia

32, 4.494, 12.019



Tritanopia
32, 4.035, 309.354

Trichromacy



Original Color
32, 1.331, 90.600

Protanomaly
32, 1.532, 74.733

Deuteranomaly
32, 3.102, 19.804

Tritanomaly
32, 2.865, 317.456

Monochromacy



Original Color
32, 1.331, 90.600

Achromatopsia
32, 0.005, 296.813

Achromatomaly
32, 0.628, 110.013

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 32, 1.331, 90.600 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(76, 75, 73)` looks like.

```
.text, #text, p{  
    color:rgb(76, 75, 73)  
}
```

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(76, 75, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 75, 73) }
```

Border

The CSS property to change the border of an element to CIELCh 32, 1.331, 90.600 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(76, 75, 73) }
```

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

```
.border{ border-color:rgb(76, 75, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 75, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 75, 73); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 75, 73);  
box-shadow:4px 4px 4px 4px rgb(76, 75, 73)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 32, 1.331, 90.600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 75, 73) }
```

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

```
.background{ background-color: rgb(76, 75,  
73) }
```

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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