

Converting Colors

CIELCh(31, 22.508, 45.429)

Have a look what the booklet for
CIELCh(31, 22.508, 45.429) contains.

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Color

CIELCh(31, 22.364, 45.181)

Conversions

Conversions Part 1	
Format	Color
Hex	673F31
RGB	103, 63, 49
RGB Percent	40%, 25%, 19%
CMY	0.5963, 0.7531, 0.8080
CMYK	0.00, 0.39, 0.52, 0.60
HSL	16°, 36%, 30%
HSV	16°, 52%, 40%
XYZ	7.9157, 6.6515, 3.7673
YIQ	73.3640, 28.3340, 4.1260

Conversions

Conversions Part 2

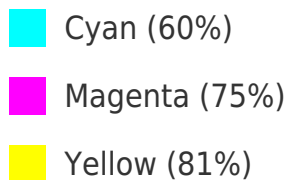
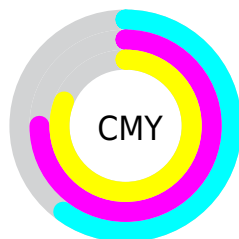
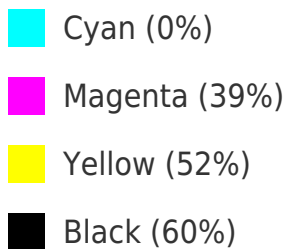
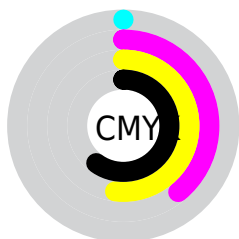
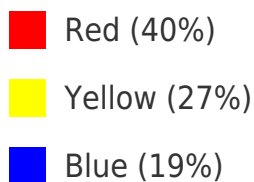
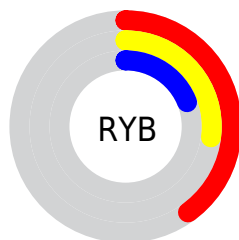
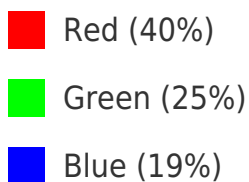
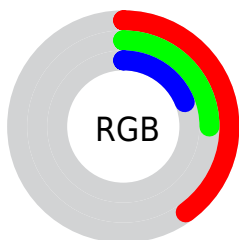
Format	Color
RYB	103, 68, 49
Decimal	6766385
CIELab	31.00, 15.76, 15.86
CIELCh	31, 22.364, 45.181
Yxy	6.6515, 0.4317, 0.3628
Android (android.graphics.Color)	4284956465 (0xFF673F31)
YUV	73.3640, -12.0115, 25.9908
Hunter-Lab	25.7905, 9.6521, 9.3927

Details

The CIELCh color **31, 22.364, 45.181** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **36, 15.802, 231.719**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 22.409, 45.528**, and **11, 22.546, 46.193** is the 20% darker color. If you saturate the color by 10%, you get **29, 27.598, 45.307**, and if you desaturate by 10%, it is **33, 17.432, 45.207**.

Distribution




Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 22.364, 45.181 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 31, 22.364, 45.181 by changing the saturation by 10% instead.

 31, 22.364, 45.181

 31, 22.364, 45.181

 100, 22.364,
45.181

 21, 22.364, 45.181

 51, 22.364, 45.181

 11, 22.364, 45.181

 61, 22.364, 45.181

 1, 22.364, 45.181

 71, 22.364, 45.181

 0, 22.364, 45.181

 81, 22.364, 45.181

 91, 22.364, 45.181

 31, 22.364, 45.181

 31, 22.364, 45.181

 29, 27.598, 45.307

 33, 17.432, 45.207

 27, 33.068, 45.559

 36, 12.827, 45.359

 25, 38.611, 45.865

 38, 8.543, 45.617

 24, 43.530, 45.572

 40, 4.563, 45.942


 22, 46.740, 45.231

 43, 0.863, 46.065

 45, 2.582, 227.041

 48, 5.800, 227.481

 51, 8.817, 227.995

 53, 11.655,
228.531

Harmonies

Complementary

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



31, 22.364, 45.181



36, 15.802, 231.719

Rectangle

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



31, 22.364, 45.181



31, 22.364, 95.181



31, 22.364, 225.181



31, 22.364, 275.181

Sweetspot

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



31, 22.363, 45.186



50, 7.329, 45.808



29, 32.959, 335.876



25, 4.934, 45.762



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



31, 22.363, 45.186



37, 34.546, 45.355



38, 25.297, 91.077



20, 2.016, 46.057



25, 51.538, 45.705



55, 93.458, 45.121

Inverse Universe

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



36, 15.802, 231.719



44, 22.074, 234.179



27, 26.478, 285.716



20, 1.922, 227.119



33, 25.338, 245.957



69, 44.729, 249.055

Previews

White Background



This preview shows how the CIE LCh color 31, 22.364, 45.181 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 31, 22.364, 45.181 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

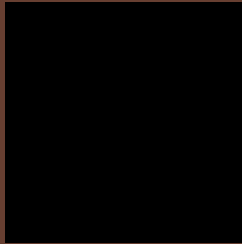
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 22.364, 45.181

Background



This preview shows how black text looks on a background with the CIELCh color 31, 22.364, 45.181.

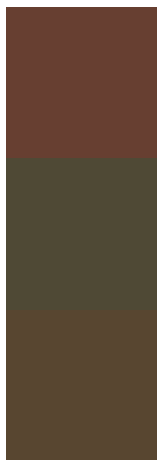


This preview shows how white text looks on a background with the CIELCh color 31, 22.364, 45.181.

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

31, 22.364, 45.181

Protanopia

31, 12.955, 94.917

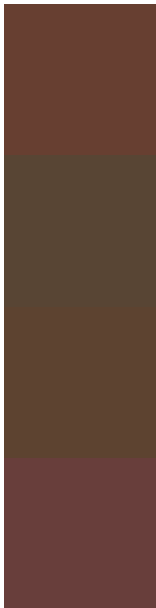
Deuteranopia

31, 16.718, 75.163



Tritanopia
31, 20.213, 16.141

Trichromacy



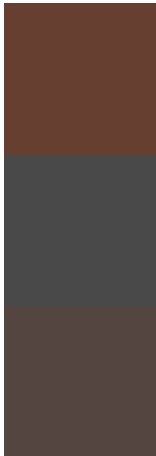
Original Color
31, 22.364, 45.181

Protanomaly
31, 14.433, 67.853

Deuteranomaly
31, 18.061, 61.820

Tritanomaly
31, 20.419, 28.156

Monochromacy



Original Color
31, 22.364, 45.181

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 7.709, 44.562

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 31, 22.364, 45.181 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(103, 63, 49)` looks like.

```
.text, #text, p{  
    color:rgb(103, 63, 49)  
}
```

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(103, 63, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 63, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 22.364, 45.181 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(103, 63, 49) }
```

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

```
.border{ border-color:rgb(103, 63, 49) }
```

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

Here you see how a box with a 4 pixel rgb(103, 63, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 63, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 63, 49);  
box-shadow:4px 4px 4px 4px rgb(103, 63,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 22.364, 45.181 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 63, 49) }
```

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

```
.background{ background-color: rgb(103, 63,  
49) }
```

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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