

Converting Colors

CIELCh(22, 27.768, 62.502)

Have a look what the booklet for
CIELCh(22, 27.768, 62.502) contains.

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Color

CIELCh(22, 27.356, 63.230)

Conversions

Conversions Part 1

Format	Color
Hex	4E2D10
RGB	78, 45, 16
RGB Percent	31%, 18%, 6%
CMY	0.6948, 0.8241, 0.9378
CMYK	0.00, 0.42, 0.80, 0.69
HSL	28°, 66%, 18%
HSV	28°, 80%, 31%
XYZ	4.1535, 3.5154, 0.9443
YIQ	51.5610, 28.9770, -2.0230

Conversions

Conversions Part 2

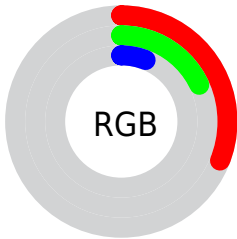
Format	Color
RYB	78, 70, 16
Decimal	5123344
CIELab	22.00, 12.32, 24.42
CIELCh	22, 27.356, 63.230
Yxy	3.5154, 0.4822, 0.4081
Android (android.graphics.Color)	4283313424 (0xFF4E2D10)
YUV	51.5610, -17.5316, 23.1870
Hunter-Lab	18.7494, 6.7309, 10.1385

Details

The CIELCh color **22, 27.356, 63.230** is a dark color, and the websafe version is hex **663300**. A complement of this color would be **19, 21.279, 268.633**, and the grayscale version is **22, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 27.057, 63.207**, and **2, 11.860, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **21, 30.448, 61.378**, and if you desaturate by 10%, it is **23, 23.567, 64.396**.

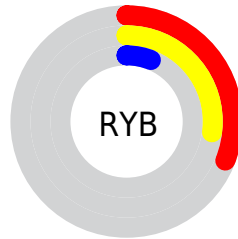
Distribution



 Red (31%)

 Green (18%)

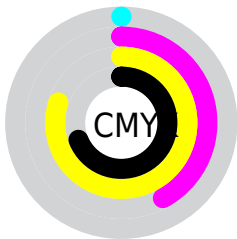
 Blue (6%)



 Red (31%)

 Yellow (27%)

 Blue (6%)

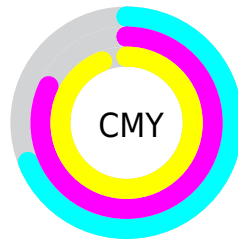


 Cyan (0%)


 Magenta (42%)

 Yellow (80%)

 Black (69%)



 Cyan (69%)

 Magenta (82%)

 Yellow (94%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 27.356, 63.230 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 22, 27.356, 63.230 by changing the saturation by 10% instead.

■ 22, 27.356, 63.230

■ 22, 27.356, 63.230

■ 100, 27.356,
63.230

■ 12, 27.356, 63.230

■ 42, 27.356, 63.230

■ 2, 27.356, 63.230

■ 52, 27.356, 63.230

■ 0, 27.356, 63.230

■ 62, 27.356, 63.230

■ 72, 27.356, 63.230

■ 82, 27.356, 63.230

■ 92, 27.356, 63.230

■ 22, 27.356, 63.230

■ 22, 27.356, 63.230

■ 21, 30.448, 61.378

■ 23, 23.567, 64.396

■ 20, 33.214, 59.523

■ 25, 19.782, 65.486

■ 20, 33.319, 59.461

■ 26, 16.095, 66.554

■ 27, 12.549, 67.621

■ 29, 9.158, 68.688

■ 30, 5.923, 69.750

■ 32, 2.837, 70.782

■ 33, 0.112, 253.689

■ 35, 2.936, 253.016

Harmonies

Complementary

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



22, 27.356, 63.230



19, 21.279, 268.633

Rectangle

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



22, 27.356, 63.230



22, 27.356, 113.230



22, 27.356, 243.230



22, 27.356, 293.230

Sweetspot

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



22, 27.355, 63.233



39, 9.175, 69.191



17, 32.231, 350.823



18, 6.253, 68.984



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



22, 27.355, 63.233



27, 41.247, 60.344



31, 34.510, 102.079



14, 1.618, 70.879



26, 42.849, 59.786



59, 80.114, 57.457

Inverse Universe

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



19, 21.279, 268.633



23, 31.518, 276.349



10, 43.187, 301.263



14, 1.584, 252.914



22, 32.794, 277.832



51, 63.339, 281.446

Previews

White Background



This preview shows how the CIE LCh color 22, 27.356, 63.230 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 22, 27.356, 63.230 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

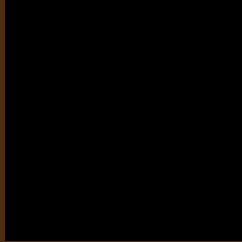
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 27.356, 63.230

Background



This preview shows how black text looks on a background with the CIELCh color 22, 27.356, 63.230.



This preview shows how white text looks on a background with the CIELCh color 22, 27.356, 63.230.

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

22, 27.356, 63.230

Protanopia

22, 22.775, 95.341

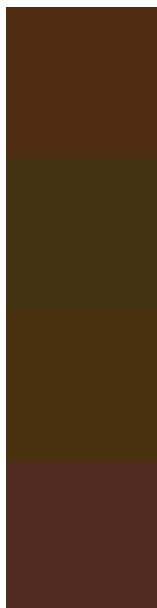
Deuteranopia

22, 25.375, 84.150



Tritanopia
22, 18.428, 17.680

Trichromacy



Original Color
22, 27.356, 63.230

Protanomaly
22, 23.345, 82.803

Deuteranomaly
22, 25.534, 76.253

Tritanomaly
22, 20.321, 39.941

Monochromacy



Original Color
22, 27.356, 63.230

Achromatopsia
21, 0.004, 296.813

Achromatomaly
21, 9.701, 69.081

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 27.356, 63.230 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(78, 45, 16)` looks like.

```
.text, #text, p{  
    color:rgb(78, 45, 16)  
}
```

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(78, 45, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 45, 16) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 27.356, 63.230 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(78, 45, 16) }
```

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

```
.border{ border-color:rgb(78, 45, 16) }
```

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

Here you see how a box with a 4 pixel rgb(78, 45, 16) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 45, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 45, 16);  
box-shadow:4px 4px 4px 4px rgb(78, 45, 16)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 27.356, 63.230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 45, 16) }
```

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

```
.background{ background-color: rgb(78, 45,  
16) }
```

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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