

Converting Colors

CIELCh(22, 8.033, 19.456)

Have a look what the booklet for
CIELCh(22, 8.033, 19.456) contains.

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Color

CIELCh(22, 7.765, 20.985)

Conversions

Conversions Part 1

Format	Color
Hex	413131
RGB	65, 49, 49
RGB Percent	25%, 19%, 19%
CMY	0.7460, 0.8087, 0.8087
CMYK	0.00, 0.25, 0.25, 0.75
HSL	0°, 14%, 22%
HSV	0°, 25%, 25%
XYZ	3.8049, 3.5154, 3.3607
YIQ	53.7840, 9.5360, 3.3920

Conversions

Conversions Part 2

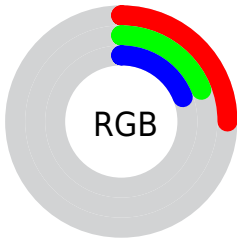
Format	Color
R_{YB}	65, 49, 49
Decimal	4272433
CIE Lab	22.00, 7.25, 2.78
CIE LCh	22, 7.765, 20.985
Yxy	3.5154, 0.3562, 0.3291
Android (android.graphics.Color)	4282462513 (0xFF413131)
YUV	53.7840, -2.3585, 9.8364
Hunter-Lab	18.7494, 3.4123, 2.4973

Details

The CIELCh color $22, 7.765, 20.985$ is a dark color, and the websafe version is hex 333333 . A complement of this color would be $26, 6.730, 198.319$, and the grayscale version is $22, 0.004, 296.813$.

A 20% lighter version of the original color is $42, 7.746, 20.392$, and $2, 7.794, 22.369$ is the 20% darker color. If you saturate the color by 10%, you get $20, 11.279, 21.960$, and if you desaturate by 10%, it is $24, 4.462, 20.208$.

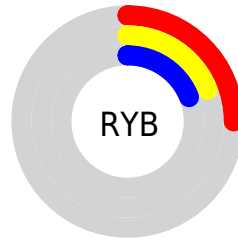
Distribution



Red (25%)

Green (19%)

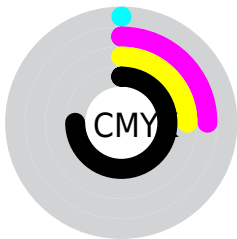
Blue (19%)



Red (25%)

Yellow (19%)

Blue (19%)

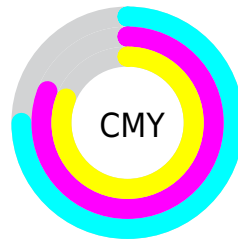


Cyan (0%)

Magenta (25%)

Yellow (25%)

Black (75%)



Cyan (75%)

Magenta (81%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 7.765, 20.985 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, 7.765, 20.985 by changing the saturation by 10% instead.

■ 22, 7.765, 20.985 ■ 22, 7.765, 20.985

■ 100, 7.765, 20.985 ■ 12, 7.765, 20.985

■ 42, 7.765, 20.985 ■ 2, 7.765, 20.985

■ 52, 7.765, 20.985 ■ 0, 7.765, 20.985

■ 62, 7.765, 20.985

■ 72, 7.765, 20.985

■ 82, 7.765, 20.985

■ 92, 7.765, 20.985

■ 22, 7.765, 20.985 ■ 22, 7.765, 20.985

■ 20, 11.279, 21.960 ■ 24, 4.462, 20.208

■ 18, 14.991, 23.179

■ 26, 1.374, 19.475

■ 16, 18.863, 24.719

■ 29, 1.508, 199.331

■ 14, 22.831, 26.657

■ 31, 4.200, 198.829

■ 13, 26.564, 28.099

■ 33, 6.718, 198.482

■ 12, 29.571, 28.299

■ 35, 9.079, 198.205

■ 11, 32.297, 27.946

■ 38, 11.300,
197.976

■ 10, 33.840, 27.572

■ 40, 13.397,
197.786

■ 42, 15.383,
197.626

Harmonies

Complementary

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



22, 7.765, 20.985



26, 6.730, 198.319

Rectangle

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



22, 7.765, 20.985



22, 7.765, 70.985



22, 7.765, 200.985



22, 7.765, 250.985

Sweetspot

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



22, 7.764, 20.992



34, 2.579, 19.688



23, 12.818, 325.615



16, 1.691, 19.692



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



22, 7.764, 20.992



28, 11.996, 21.606



24, 6.563, 72.735



12, 1.688, 19.778



18, 48.294, 35.261



47, 94.946, 40.000

Inverse Universe

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



26, 6.730, 198.319



34, 9.964, 198.045



23, 6.196, 258.577



12, 1.610, 199.100



37, 24.668, 196.391



81, 45.498, 196.391

Previews

White Background



This preview shows how the CIELCh color 22, 7.765, 20.985 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, 7.765, 20.985 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

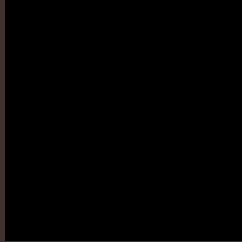
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 7.765, 20.985

Background



This preview shows how black text looks on a background with the CIELCh color 22, 7.765, 20.985.

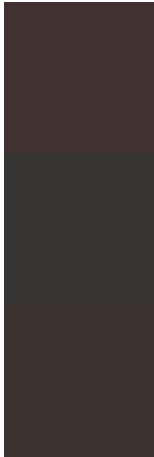


This preview shows how white text looks on a background with the CIELCh color 22, 7.765, 20.985.

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, 7.765, 20.985

Protanopia

22, 1.410, 90.480

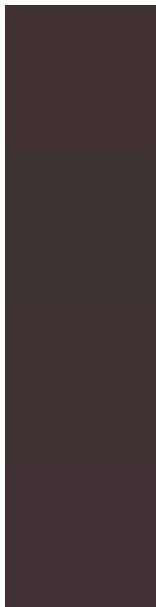
Deuteranopia

22, 4.805, 44.688



Tritanopia
22, 8.498, 2.998

Trichromacy



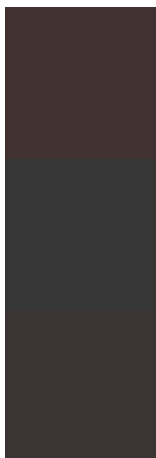
Original Color
22, 7.765, 20.985

Protanomaly
22, 3.398, 31.310

Deuteranomaly
22, 5.994, 33.306

Tritanomaly
22, 8.364, 7.411

Monochromacy



Original Color
22, 7.765, 20.985

Achromatopsia
23, 0.004, 296.813

Achromatomaly
22, 2.822, 19.886

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 7.765, 20.985 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(65, 49, 49)` looks like.

```
.text, #text, p{  
    color:rgb(65, 49, 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(65, 49, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 49, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 7.765, 20.985 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(65, 49, 49) }
```

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

```
.border{ border-color:rgb(65, 49, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 49, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 49, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 49, 49);  
box-shadow:4px 4px 4px 4px rgb(65, 49, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 7.765, 20.985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 49, 49) }
```

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

```
.background{ background-color: rgb(65, 49,  
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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