

Converting Colors

CIELCh(22, 17.048, 331.296)

Have a look what the booklet for
CIELCh(22, 17.048, 331.296)
contains.

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Color

CIELCh(22, 16.968, 331.302)

Conversions

Conversions Part 1

Format	Color
Hex	452D41
RGB	69, 45, 65
RGB Percent	27%, 18%, 25%
CMY	0.7297, 0.8238, 0.7454
CMYK	0.00, 0.35, 0.06, 0.73
HSL	310°, 21%, 22%
HSV	310°, 35%, 27%
XYZ	4.3374, 3.5154, 5.4407
YIQ	54.4560, 7.8840, 11.3080

Conversions

Conversions Part 2

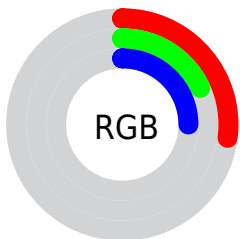
Format	Color
RYB	69, 45, 65
Decimal	4533569
CIELab	22.00, 14.88, -8.15
CIElCh	22, 16.968, 331.302
Yxy	3.5154, 0.3263, 0.2644
Android (android.graphics.Color)	4282723649 (0xFF452D41)
YUV	54.4560, 5.1982, 12.7551
Hunter-Lab	18.7494, 8.4821, -4.0802

Details

The CIELCh color **22, 16.968, 331.302** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **27, 16.919, 147.073**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **42, 17.195, 331.369**, and **3, 15.261, 331.171** is the 20% darker color. If you saturate the color by 10%, you get **20, 21.692, 331.882**, and if you desaturate by 10%, it is **24, 12.107, 330.731**.

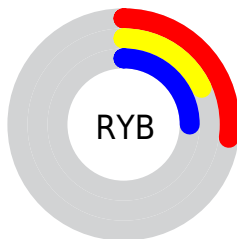
Distribution



Red (27%)

Green (18%)

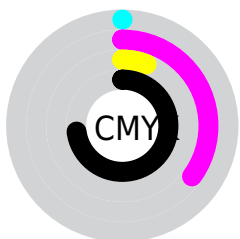
Blue (25%)



Red (27%)

Yellow (18%)

Blue (25%)

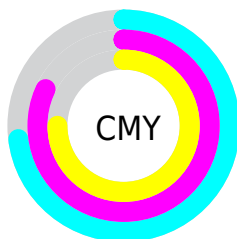


Cyan (0%)

Magenta (35%)

Yellow (6%)

Black (73%)



Cyan (73%)


Magenta (82%)


Yellow (75%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 22, 16.968, 331.302 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, 16.968, 331.302 by changing the saturation by 10% instead.

 22, 16.968,
331.302


 22, 16.968,
331.302

 100, 16.968,
331.302


 12, 16.968,
331.302


 42, 16.968,
331.302


 2, 16.968, 331.302


 52, 16.968,
331.302

 0, 16.968, 331.302

 62, 16.968,
331.302

 72, 16.968,
331.302

 82, 16.968,
331.302

 92, 16.968,

331.302

■ 22, 16.968,
331.302

■ 22, 16.968,
331.302

■ 20, 21.692,
331.882

■ 24, 12.107,
330.731

■ 18, 26.158,
332.468

■ 26, 7.205, 330.167

■ 17, 30.216,
333.063

■ 28, 2.327, 329.586

■ 30, 2.482, 149.179

■ 16, 33.697,
333.668

■ 33, 7.194, 148.637

■ 14, 36.435,
334.293

■ 35, 11.792,
148.145

■ 14, 38.803,
334.909

■ 37, 16.268,
147.678

■ 13, 40.132,
335.207

■ 39, 20.620,
147.235

■ 42, 24.850,
146.814

Harmonies

Complementary

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



22, 16.968, 331.302



27, 16.919, 147.073

Rectangle

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



22, 16.968, 331.302



22, 16.968, 21.302



22, 16.968, 151.302



22, 16.968, 201.302

Sweetspot

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



22, 16.967, 331.302



35, 6.016, 329.919



20, 16.483, 298.909



17, 4.141, 329.956



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



22, 16.967, 331.302



27, 25.225, 331.816



22, 12.567, 355.929



13, 2.782, 329.818



21, 51.241, 335.657



52, 92.765, 336.319

Inverse Universe

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



22, 16.967, 331.302



27, 25.225, 331.816



27, 11.656, 169.535



13, 2.782, 329.818



21, 51.241, 335.657



52, 92.765, 336.319

Previews

White Background



This preview shows how the CIE LCh color 22, 16.968, 331.302 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 22, 16.968, 331.302 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

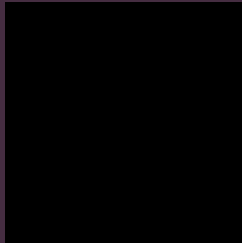
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 16.968, 331.302

Background



This preview shows how black text looks on a background with the CIELCh color 22, 16.968, 331.302.



This preview shows how white text looks on a background with the CIELCh color 22, 16.968, 331.302.

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, 16.968, 331.302

Protanopia
22, 12.150, 285.303

Deuteranopia
22, 8.081, 294.994



Tritanopia
22, 9.318, 9.098

Trichromacy



Original Color
22, 16.968, 331.302

Protanomaly
22, 13.191, 305.779

Deuteranomaly
22, 11.039, 315.534

Tritanomaly
22, 11.429, 350.380

Monochromacy



Original Color
22, 16.968, 331.302

Achromatopsia
23, 0.004, 296.813

Achromatomaly
22, 5.960, 328.709

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 16.968, 331.302 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(69, 45, 65)` looks like.

```
.text, #text, p{  
    color:rgb(69, 45, 65)  
}
```

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(69, 45, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 45, 65) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 16.968, 331.302 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(69, 45, 65) }
```

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

```
.border{ border-color:rgb(69, 45, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 45, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 45, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 45, 65);  
box-shadow:4px 4px 4px 4px rgb(69, 45, 65)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 16.968, 331.302 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 45, 65) }
```

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

```
.background{ background-color: rgb(69, 45,  
65) }
```

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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