

Converting Colors

CIELCh(19, 55.004, 353.868)

Have a look what the booklet for
CIELCh(19, 55.004, 353.868)
contains.

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Color

CIELCh(22, 45.678, 358.577)

Conversions

Conversions Part 1

Format	Color
Hex	6D0038
RGB	109, 0, 56
RGB Percent	43%, 0%, 22%
CMY	0.5734, 1.0000, 0.7811
CMYK	0.00, 1.00, 0.49, 0.57
HSL	329°, 100%, 21%
HSV	329°, 100%, 43%
XYZ	6.9874, 3.5154, 4.0300
YIQ	38.9750, 46.9880, 40.5240

Conversions

Conversions Part 2

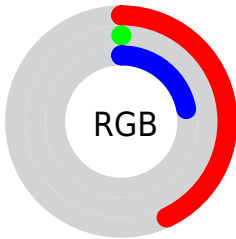
Format	Color
R_{YB}	109, 0, 56
Decimal	7143480
CIE Lab	22.00, 45.66, -1.13
CIE LCh	22, 45.678, 358.577
Yxy	3.5154, 0.4808, 0.2419
Android (android.graphics.Color)	4285333560 (0xFF6D0038)
YUV	38.9750, 8.3933, 61.4119
Hunter-Lab	18.7494, 33.7101, 0.3809

Details

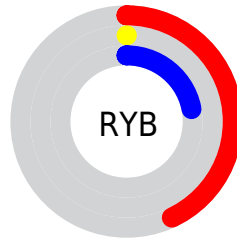
The CIELCh color **22, 45.678, 358.577** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **40, 47.019, 149.698**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 45.911, 358.303**, and **8, 29.322, 15.492** is the 20% darker color. If you saturate the color by 10%, you get **22, 45.610, 358.617**, and if you desaturate by 10%, it is **23, 43.835, 355.718**.

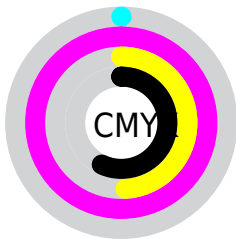
Distribution



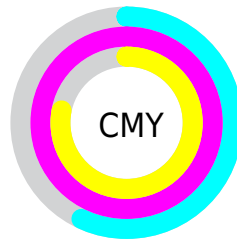
- Red (43%)
- Green (0%)
- Blue (22%)



- Red (43%)
- Yellow (0%)
- Blue (22%)



- Cyan (0%)
- Magenta (100%)
- Yellow (49%)
- Black (57%)





- Cyan (57%)
- Magenta (100%)
- Yellow (78%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 22, 45.678, 358.577 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, 45.678, 358.577 by changing the saturation by 10% instead.

 22, 45.678,
358.577


 22, 45.678,
358.577

 100, 45.678,
358.577


 12, 45.678,
358.577


 42, 45.678,
358.577


 2, 45.678, 358.577

 52, 45.678,
358.577

 0, 45.678, 358.577

 62, 45.678,
358.577

 72, 45.678,
358.577

 82, 45.678,
358.577

 92, 45.678,

358.577

■ 22, 45.678,
358.577

■ 22, 45.678,
358.577

■ 22, 45.610,
358.617

■ 23, 43.835,
355.718

■ 24, 41.509,
353.089

■ 26, 38.037,
350.977

■ 28, 33.617,
349.253

■ 31, 28.511,
347.816

■ 33, 22.976,
346.587

■ 36, 17.225,
345.515

■ 39, 11.414,
344.558

■ 43, 5.651, 343.681

Harmonies

Complementary

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



22, 45.678, 358.577



40, 47.019, 149.698

Rectangle

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



22, 45.678, 358.577



22, 45.678, 48.577



22, 45.678, 178.577



22, 45.678, 228.577

Sweetspot

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



22, 45.610, 358.617



47, 21.221, 345.595



15, 66.530, 312.071



22, 14.601, 345.925



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



22, 45.610, 358.617



30, 54.571, 359.751



21, 53.002, 36.106



21, 3.131, 343.590



24, 48.072, 358.976



53, 82.231, 1.560

Inverse Universe

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



22, 45.610, 358.617



30, 54.571, 359.751



41, 27.083, 193.977



21, 3.131, 343.590



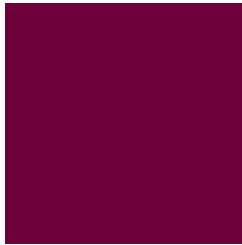
24, 48.072, 358.976



53, 82.231, 1.560

Previews

White Background



This preview shows how the CIE LCh color 22, 45.678, 358.577 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, 45.678, 358.577 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

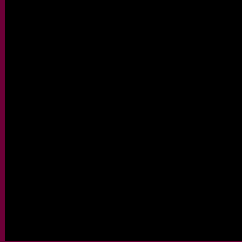
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 45.678, 358.577

Background



This preview shows how black text looks on a background with the CIELCh color 22, 45.678, 358.577.



This preview shows how white text looks on a background with the CIELCh color 22, 45.678, 358.577.

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, 45.678, 358.577

Protanopia

24, 16.694, 284.662

Deuteranopia

24, 5.076, 51.293



Tritanopia
23, 43.633, 32.135

Trichromacy



Original Color
22, 45.678, 358.577

Protanomaly
20, 27.719, 325.971

Deuteranomaly
21, 23.487, 355.735

Tritanomaly
22, 43.018, 19.865

Monochromacy



Original Color
22, 45.678, 358.577

Achromatopsia
16, 0.003, 296.813

Achromatomaly
15, 22.157, 348.735

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 45.678, 358.577 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(109, 0, 56)` looks like.

```
.text, #text, p{  
    color:rgb(109, 0, 56)  
}
```

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(109, 0, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 0, 56) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 45.678, 358.577 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(109, 0, 56) }
```

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

```
.border{ border-color:rgb(109, 0, 56) }
```

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

Here you see how a box with a 4 pixel rgb(109, 0, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 0, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 0, 56);  
box-shadow:4px 4px 4px 4px rgb(109, 0, 56)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 22, 45.678, 358.577 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 0, 56) }
```

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

```
.background{ background-color: rgb(109, 0,  
56) }
```

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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