

Converting Colors

CIELCh(22, 77.459, 303.473)

Have a look what the booklet for
CIELCh(22, 77.459, 303.473)
contains.

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Color

CIELCh(22, 77.342, 303.448)

Conversions

Conversions Part 1

Format	Color
Hex	1F1F98
RGB	31, 31, 152
RGB Percent	12%, 12%, 60%
CMY	0.8799, 0.8792, 0.4048
CMYK	0.80, 0.80, 0.00, 0.40
HSL	240°, 66%, 36%
HSV	240°, 80%, 60%
XYZ	6.6880, 3.5154, 29.9368
YIQ	44.7940, -38.8410, 37.6310

Conversions

Conversions Part 2

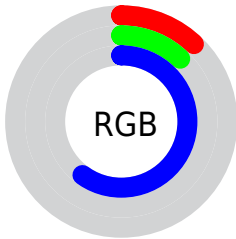
Format	Color
R_{YB}	31, 31, 152
Decimal	2039704
CIE _{Lab}	22.00, 42.63, -64.53
CIE _{LCh}	22, 77.342, 303.448
Yxy	3.5154, 0.1666, 0.0876
Android (android.graphics.Color)	4280229784 (0xFF1F1F98)
YUV	44.7940, 52.8526, -12.0973
Hunter-Lab	18.7494, 30.8606, -81.5422

Details

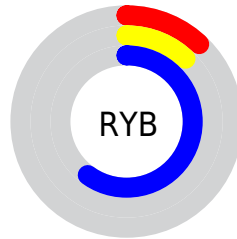
The CIELCh color **22, 77.342, 303.448** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **61, 59.741, 103.403**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 77.356, 303.436**, and **8, 67.340, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **19, 85.186, 305.105**, and if you desaturate by 10%, it is **26, 67.591, 301.381**.

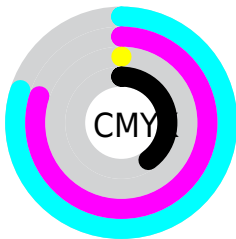
Distribution



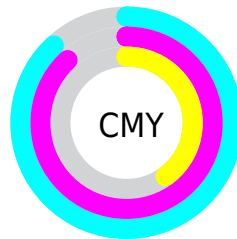
- Red (12%)
- Green (12%)
- Blue (60%)



- Red (12%)
- Yellow (12%)
- Blue (60%)



- Cyan (80%)
- Magenta (80%)
- Yellow (0%)
- Black (40%)



- Cyan (88%)
- Magenta (88%)
- Yellow (40%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 77.342, 303.448 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, 77.342, 303.448 by changing the saturation by 10% instead.

 22, 77.342,
303.448

 22, 77.342,
303.448

 100, 77.342,
303.448

 12, 77.342,
303.448


 42, 77.342,
303.448


 2, 77.342, 303.448

 52, 77.342,
303.448

 0, 77.342, 303.448

 62, 77.342,
303.448

 72, 77.342,
303.448

 82, 77.342,
303.448

 92, 77.342,

303.448

■ 22, 77.342,
303.448

■ 22, 77.342,
303.448

■ 19, 85.186,
305.105

■ 26, 67.591,
301.381

■ 17, 90.676,
306.243

■ 31, 57.151,
299.211

■ 17, 90.776,
306.263

■ 36, 46.714,
297.147

■ 41, 36.573,
295.292

■ 47, 26.821,
293.676

■ 52, 17.466,
292.290

■ 57, 8.487, 291.111

■ 63, 0.142, 109.727

■ 68, 8.448, 109.238

Harmonies

Complementary

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



22, 77.342, 303.448



61, 59.741, 103.403

Rectangle

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



22, 77.342, 303.448



22, 77.342, 353.448



22, 77.342, 123.448



22, 77.342, 173.448

Sweetspot

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



22, 77.343, 303.449



63, 26.331, 292.906



57, 32.448, 194.444



31, 18.357, 293.372



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



22, 77.343, 303.449



24, 107.902, 305.939



28, 74.056, 312.138



29, 4.910, 291.048



15, 85.683, 306.261



0, 5.221, 290.117

Inverse Universe

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



33, 58.380, 33.116



41, 83.608, 38.874



57, 65.427, 125.843



30, 3.439, 19.770



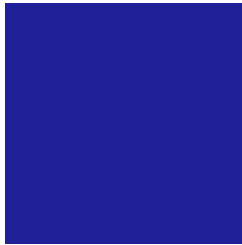
28, 66.060, 38.988



1, 3.596, 19.278

Previews

White Background



This preview shows how the CIE LCh color 22, 77.342, 303.448 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, 77.342, 303.448 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

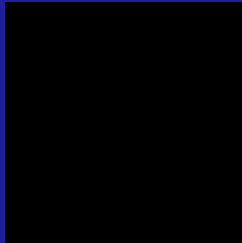
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 77.342, 303.448

Background



This preview shows how black text looks on a background with the CIELCh color 22, 77.342, 303.448.



This preview shows how white text looks on a background with the CIELCh color 22, 77.342, 303.448.

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, 77.342, 303.448

Protanopia

22, 38.568, 284.323

Deuteranopia

22, 26.639, 268.815



Tritanopia
22, 17.218, 203.351

Trichromacy



Original Color
22, 77.342, 303.448

Protanomaly
21, 53.272, 294.859

Deuteranomaly
21, 45.655, 291.453

Tritanomaly
20, 31.669, 281.251

Monochromacy



Original Color
22, 77.342, 303.448

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 30.196, 297.047

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 77.342, 303.448 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(31, 31, 152)` looks like.

```
.text, #text, p{  
    color:rgb(31, 31, 152)  
}
```

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(31, 31, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 31, 152) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 77.342, 303.448 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(31, 31, 152) }
```

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

```
.border{ border-color:rgb(31, 31, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 31, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 31, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 31, 152);  
box-shadow:4px 4px 4px 4px rgb(31, 31,  
152) }
```

Background

The CSS property to change the background color of an element to CIELCh 22, 77.342, 303.448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 31, 152) }
```

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

```
.background{ background-color: rgb(31, 31,  
152) }
```

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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