

Converting Colors

CIELCh(22, 78.205, 302.370)

Have a look what the booklet for
CIELCh(22, 78.205, 302.370)
contains.

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Color

CIELCh(22, 78.305, 302.424)

Conversions

Conversions Part 1

Format	Color
Hex	12209A
RGB	18, 32, 154
RGB Percent	7%, 13%, 60%
CMY	0.9302, 0.8736, 0.3949
CMYK	0.88, 0.79, 0.00, 0.39
HSL	234°, 79%, 34%
HSV	234°, 88%, 61%
XYZ	6.6257, 3.5154, 31.0301
YIQ	41.7220, -47.5060, 34.9740

Conversions

Conversions Part 2

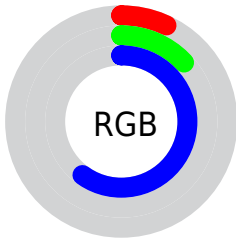
Format	Color
R_{YB}	18, 31, 154
Decimal	1187994
CIE _{Lab}	22.00, 41.99, -66.10
CIE _{LCh}	22, 78.305, 302.424
Yxy	3.5154, 0.1609, 0.0854
Android (android.graphics.Color)	4279378074 (0xFF12209A)
YUV	41.7220, 55.3531, -20.8042
Hunter-Lab	18.7494, 30.2667, -84.9998

Details

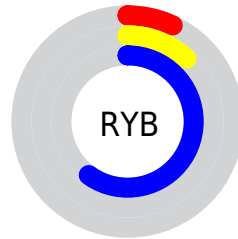
The CIELCh color **22, 78.305, 302.424** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **58, 59.309, 96.606**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **42, 78.569, 302.458**, and **8, 67.812, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **19, 85.658, 304.386**, and if you desaturate by 10%, it is **26, 69.347, 300.002**.

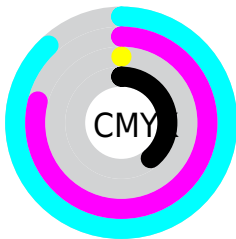
Distribution



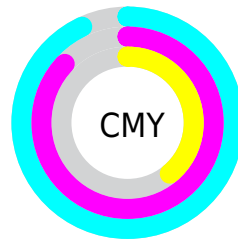
- Red (7%)
- Green (13%)
- Blue (60%)



- Red (7%)
- Yellow (12%)
- Blue (60%)



- Cyan (88%)
- Magenta (79%)
- Yellow (0%)
- Black (39%)



- Cyan (93%)
- Magenta (87%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 22, 78.305, 302.424 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, 78.305, 302.424 by changing the saturation by 10% instead.

■ 22, 78.305,
302.424

■ 22, 78.305,
302.424

■ 100, 78.305,
302.424

■ 12, 78.305,
302.424

■ 42, 78.305,
302.424

■ 2, 78.305, 302.424

■ 52, 78.305,
302.424

■ 0, 78.305, 302.424

■ 62, 78.305,
302.424

■ 72, 78.305,
302.424

■ 82, 78.305,
302.424

■ 92, 78.305,

302.424

■ 22, 78.305,
302.424

■ 22, 78.305,
302.424

■ 19, 85.658,
304.386

■ 26, 69.347,
300.002

■ 19, 86.592,
304.608

■ 30, 59.756,
297.455

■ 35, 50.143,
295.006

■ 39, 40.779,
292.780

■ 44, 31.749,
290.821

■ 49, 23.061,
289.129

■ 54, 14.695,
287.679

■ 59, 6.625, 286.445

■ 64, 1.170, 105.292

Harmonies

Complementary

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



22, 78.305, 302.424



58, 59.309, 96.606

Rectangle

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



22, 78.305, 302.424



22, 78.305, 352.424



22, 78.305, 122.424



22, 78.305, 172.424

Sweetspot

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



22, 78.306, 302.425



64, 27.135, 288.984



57, 37.035, 181.790



32, 18.536, 289.483



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



22, 78.306, 302.425



26, 106.769, 304.946



24, 81.814, 309.868



30, 4.397, 286.531



17, 80.330, 304.455



1, 4.695, 285.609

Inverse Universe

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



33, 61.149, 29.980



42, 83.006, 35.816



58, 68.341, 122.464



30, 3.467, 11.359



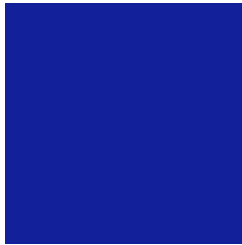
28, 62.564, 34.455



1, 3.644, 10.818

Previews

White Background



This preview shows how the CIE LCh color 22, 78.305, 302.424 looks on a white background.

Color Contrast Check

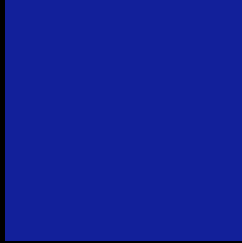
Large Text (above 18pt) WCAG AA ✓ Pass

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, 78.305, 302.424 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

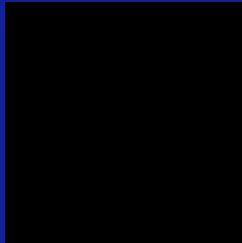
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 22, 78.305, 302.424

Background



This preview shows how black text looks on a background with the CIELCh color 22, 78.305, 302.424.



This preview shows how white text looks on a background with the CIELCh color 22, 78.305, 302.424.

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, 78.279, 302.473

Protanopia

22, 38.568, 284.323

Deuteranopia

22, 26.639, 268.815



Tritanopia
22, 17.218, 203.351

Trichromacy



Original Color
22, 78.279, 302.473

Protanomaly
21, 53.942, 294.672

Deuteranomaly
21, 45.625, 290.587

Tritanomaly
20, 32.400, 280.916

Monochromacy



Original Color
22, 78.279, 302.473

Achromatopsia
17, 0.003, 296.813

Achromatomaly
17, 31.114, 294.730

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 22, 78.305, 302.424 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(18, 32, 154)` looks like.

```
.text, #text, p{  
    color:rgb(18, 32, 154)  
}
```

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(18, 32, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 32, 154) }
```

Border

The CSS property to change the border of an element to CIELCh 22, 78.305, 302.424 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(18, 32, 154) }
```

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

```
.border{ border-color:rgb(18, 32, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 32, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 32, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 32, 154);  
box-shadow:4px 4px 4px 4px rgb(18, 32,  
154) }
```

Background

The CSS property to change the background color of an element to CIELCh 22, 78.305, 302.424 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 32, 154) }
```

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

```
.background{ background-color: rgb(18, 32,  
154) }
```

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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