

Converting Colors

CIELCh(23, 70.561, 301.794)

Have a look what the booklet for
CIELCh(23, 70.561, 301.794)
contains.

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Color

CIELCh(23, 70.374, 301.757)

Conversions

Conversions Part 1

Format	Color
Hex	212693
RGB	33, 38, 147
RGB Percent	13%, 15%, 58%
CMY	0.8714, 0.8515, 0.4241
CMYK	0.78, 0.74, 0.00, 0.42
HSL	237°, 64%, 35%
HSV	237°, 78%, 58%
XYZ	6.5644, 3.8003, 27.9317
YIQ	48.9310, -37.9690, 32.8390

Conversions

Conversions Part 2

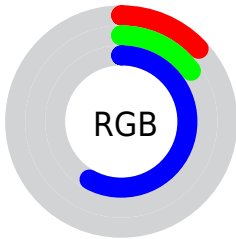
Format	Color
R_{YB}	33, 38, 147
Decimal	2172563
CIE _{Lab}	23.00, 37.04, -59.84
CIE _{LCh}	23, 70.374, 301.757
Yxy	3.8003, 0.1714, 0.0992
Android (android.graphics.Color)	4280362643 (0xFF212693)
YUV	48.9310, 48.3480, -13.9715
Hunter-Lab	19.4944, 25.9916, -71.3049




Details

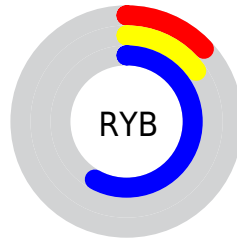
The CIELCh color **23, 70.374, 301.757** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **58, 55.422, 101.201**, and the grayscale version is **20, 0.004, 296.813**.




A 20% lighter version of the original color is **43, 70.328, 301.822**, and **7, 64.918, 306.260** is the 20% darker color. If you saturate the color by 10%, you get **20, 78.938, 303.831**, and if you desaturate by 10%, it is **27, 60.762, 299.461**.

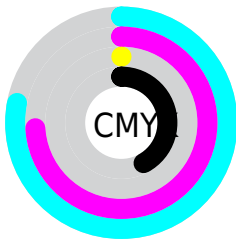
Distribution







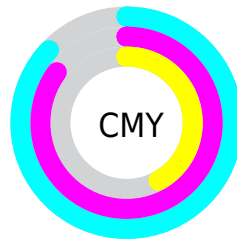
-  Red (13%)
-  Green (15%)
-  Blue (58%)






-  Red (13%)
-  Yellow (15%)
-  Blue (58%)



-  Cyan (78%)
-  Magenta (74%)
-  Yellow (0%)
-  Black (42%)





-  Cyan (87%)
-  Magenta (85%)
-  Yellow (42%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 70.374, 301.757 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 23, 70.374, 301.757 by changing the saturation by 10% instead.

 23, 70.374,
301.757


 23, 70.374,
301.757

 100, 70.374,
301.757


 13, 70.374,
301.757


 43, 70.374,
301.757


 3, 70.374, 301.757

 53, 70.374,
301.757

 0, 70.374, 301.757

 63, 70.374,
301.757

 73, 70.374,
301.757

 83, 70.374,
301.757

 93, 70.374,

301.757

■ 23, 70.374,
301.757

■ 23, 70.374,
301.757

■ 20, 78.938,
303.831

■ 27, 60.762,
299.461

■ 17, 85.265,
305.332

■ 32, 50.931,
297.193

■ 17, 86.445,
305.580

■ 37, 41.284,
295.104

■ 42, 31.970,
293.256

■ 47, 23.019,
291.657

■ 52, 14.420,
290.289

■ 57, 6.149, 289.125

■ 62, 1.817, 108.081

■ 67, 9.503, 107.255

Harmonies

Complementary

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



23, 70.374, 301.757



58, 55.422, 101.201

Rectangle

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



23, 70.374, 301.757



23, 70.374, 351.757



23, 70.374, 121.757



23, 70.374, 171.757

Sweetspot

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



23, 70.375, 301.758



63, 23.532, 291.056



55, 31.978, 190.511



31, 16.523, 291.528



89, 0.011, 296.813



41, 0.006, 296.813

Same Dimension

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



23, 70.375, 301.758



25, 101.828, 305.014



27, 70.781, 311.261



29, 4.563, 289.291



15, 82.322, 305.524



0, 3.930, 288.335

Inverse Universe

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



33, 53.950, 29.527



40, 78.481, 36.174



55, 61.968, 124.570



29, 3.345, 16.271



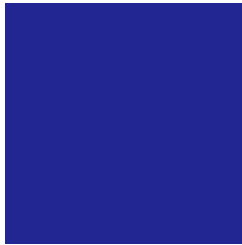
28, 63.679, 37.139



1, 2.837, 15.690

Previews

White Background



This preview shows how the CIE LCh color 23, 70.374, 301.757 looks on a white background.

Color Contrast Check

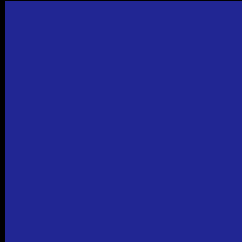
Large Text (above 18pt) WCAG AA ✓ Pass

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 23, 70.374, 301.757 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

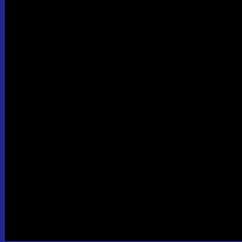
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 70.374, 301.757

Background



This preview shows how black text looks on a background with the CIELCh color 23, 70.374, 301.757.



This preview shows how white text looks on a background with the CIELCh color 23, 70.374, 301.757.

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


23, 70.374, 301.757

Protanopia

23, 39.665, 284.432

Deuteranopia

23, 27.761, 269.692



Tritanopia
23, 17.506, 205.484

Trichromacy



Original Color
23, 70.374, 301.757

Protanomaly
23, 51.020, 293.102

Deuteranomaly
22, 42.799, 288.903

Tritanomaly
22, 29.100, 276.734

Monochromacy



Original Color
23, 70.374, 301.757

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 27.132, 294.752

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 70.374, 301.757 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(33, 38, 147)` looks like.

```
.text, #text, p{  
    color:rgb(33, 38, 147)  
}
```

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(33, 38, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 38, 147) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 70.374, 301.757 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(33, 38, 147) }
```

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

```
.border{ border-color:rgb(33, 38, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 38, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 38, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 38, 147);  
box-shadow:4px 4px 4px 4px rgb(33, 38,  
147) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 70.374, 301.757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 38, 147) }
```

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

```
.background{ background-color: rgb(33, 38,  
147) }
```

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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