

Converting Colors

CIELCh(23, 23.045, 320.242)

Have a look what the booklet for
CIELCh(23, 23.045, 320.242)
contains.

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Color

CIELCh(23, 22.968, 320.606)

Conversions

Conversions Part 1

Format	Color
Hex	472E4D
RGB	71, 46, 77
RGB Percent	28%, 18%, 30%
CMY	0.7225, 0.8205, 0.6989
CMYK	0.08, 0.40, 0.00, 0.70
HSL	288°, 25%, 24%
HSV	288°, 40%, 30%
XYZ	4.8813, 3.8003, 7.4545
YIQ	57.0090, 4.9490, 14.9410

Conversions

Conversions Part 2

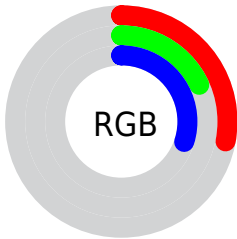
Format	Color
R_{YB}	71, 46, 77
Decimal	4664909
CIE _{Lab}	23.00, 17.75, -14.58
CIE _{LCh}	23, 22.968, 320.606
Yxy	3.8003, 0.3025, 0.2355
Android (android.graphics.Color)	4282854989 (0xFF472E4D)
YUV	57.0090, 9.8556, 12.2701
Hunter-Lab	19.4944, 10.5805, -9.0258

Details

The CIELCh color **23, 22.968, 320.606** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **30, 22.619, 136.990**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 23.187, 320.674**, and **3, 22.612, 320.933** is the 20% darker color. If you saturate the color by 10%, you get **21, 28.520, 320.961**, and if you desaturate by 10%, it is **25, 17.269, 320.217**.

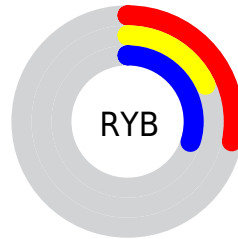
Distribution



 Red (28%)

 Green (18%)

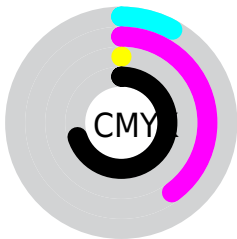
 Blue (30%)



 Red (28%)

 Yellow (18%)

 Blue (30%)

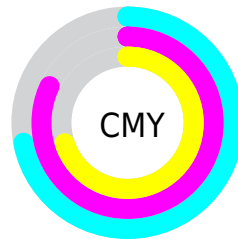


 Cyan (8%)


 Magenta (40%)

 Yellow (0%)

 Black (70%)



 Cyan (72%)

 Magenta (82%)

 Yellow (70%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 22.968, 320.606 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, 22.968, 320.606 by changing the saturation by 10% instead.

 23, 22.968,
320.606

 23, 22.968,
320.606

 100, 22.968,
320.606

 13, 22.968,
320.606

 43, 22.968,
320.606

 3, 22.968, 320.606

 53, 22.968,
320.606

 0, 22.968, 320.606

 63, 22.968,
320.606

 73, 22.968,
320.606

 83, 22.968,
320.606

 93, 22.968,

320.606

■ 23, 22.968,
320.606

■ 23, 22.968,
320.606

■ 21, 28.520,
320.961

■ 25, 17.269,
320.217

■ 19, 33.783,
321.259

■ 28, 11.531,
319.811

■ 17, 38.573,
321.472

■ 30, 5.827, 319.397

■ 15, 42.678,
321.569

■ 33, 0.206, 318.502

■ 14, 45.971,
321.533

■ 35, 5.303, 138.653

■ 13, 49.225,
321.550

■ 38, 10.683,
138.278

■ 40, 15.924,
137.931

■ 43, 21.025,
137.608

■ 45, 25.986,
137.309

Harmonies

Complementary

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



23, 22.968, 320.606



30, 22.619, 136.990

Rectangle

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



23, 22.968, 320.606



23, 22.968, 10.606



23, 22.968, 140.606



23, 22.968, 190.606

Sweetspot

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



23, 22.967, 320.606



38, 8.375, 319.483



22, 16.708, 285.833



19, 5.603, 319.506



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



23, 22.967, 320.606



28, 33.694, 320.941



23, 19.582, 336.979



14, 3.125, 319.324



19, 59.951, 321.300



47, 108.693, 320.833

Inverse Universe

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



23, 15.321, 8.065



28, 22.870, 9.605



30, 19.362, 151.192



14, 1.974, 4.372



20, 46.306, 26.506



48, 86.817, 30.744

Previews

White Background



This preview shows how the CIE LCh color 23, 22.968, 320.606 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 23, 22.968, 320.606 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

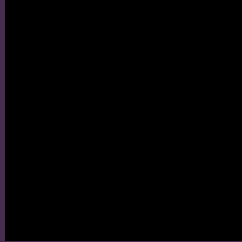
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 22.968, 320.606

Background



This preview shows how black text looks on a background with the CIELCh color 23, 22.968, 320.606.



This preview shows how white text looks on a background with the CIELCh color 23, 22.968, 320.606.

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, 22.968, 320.606

Protanopia

23, 20.113, 285.303

Deuteranopia

23, 14.089, 285.282



Tritanopia
23, 8.285, 7.305

Trichromacy



Original Color
23, 22.968, 320.606

Protanomaly
23, 20.132, 297.626

Deuteranomaly
23, 16.953, 301.790

Tritanomaly
23, 12.473, 338.321

Monochromacy



Original Color
23, 22.968, 320.606

Achromatopsia
24, 0.004, 296.813

Achromatomaly
23, 8.372, 320.016

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 22.968, 320.606 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(71, 46, 77)` looks like.

```
.text, #text, p{  
    color:rgb(71, 46, 77)  
}
```

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(71, 46, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 46, 77) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 22.968, 320.606 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(71, 46, 77) }
```

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

```
.border{ border-color:rgb(71, 46, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 46, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 46, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 46, 77);  
box-shadow:4px 4px 4px 4px rgb(71, 46, 77)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 22.968, 320.606 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 46, 77) }
```

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

```
.background{ background-color: rgb(71, 46,  
77) }
```

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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