

Converting Colors

CIELCh(33, 22.477, 267.843)

Have a look what the booklet for
CIELCh(33, 22.477, 267.843)
contains.

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Color

CIELCh(33, 22.448, 267.715)

Conversions

Conversions Part 1

Format	Color
Hex	315071
RGB	49, 80, 113
RGB Percent	19%, 31%, 44%
CMY	0.8088, 0.6872, 0.5578
CMYK	0.57, 0.29, 0.00, 0.56
HSL	211°, 40%, 32%
HSV	211°, 57%, 44%
XYZ	7.0733, 7.5373, 16.6326
YIQ	74.4930, -29.0690, 3.6910

Conversions

Conversions Part 2

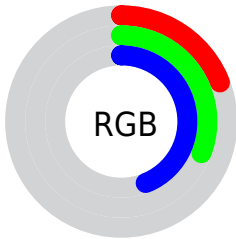
Format	Color
R_{YB}	49, 70, 113
Decimal	3231857
CIE _{Lab}	33.00, -0.90, -22.43
CIE _{LCh}	33, 22.448, 267.715
Yxy	7.5373, 0.2264, 0.2412
Android (android.graphics.Color)	4281421937 (0xFF315071)
YUV	74.4930, 18.9840, -22.3574
Hunter-Lab	27.4541, -2.0560, -16.7020

Details

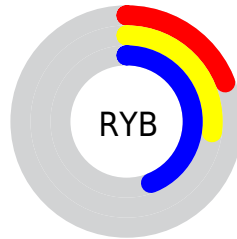
The CIELCh color **33, 22.448, 267.715** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **37, 25.836, 70.160**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 22.483, 267.690**, and **13, 21.884, 271.626** is the 20% darker color. If you saturate the color by 10%, you get **31, 26.240, 270.779**, and if you desaturate by 10%, it is **35, 18.610, 265.076**.

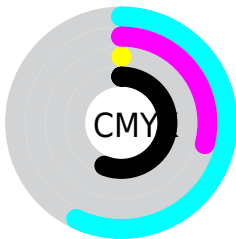
Distribution



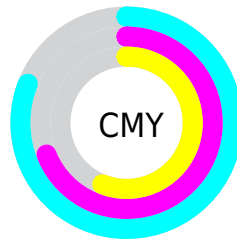
- Red (19%)
- Green (31%)
- Blue (44%)



- Red (19%)
- Yellow (27%)
- Blue (44%)



- Cyan (57%)
- Magenta (29%)
- Yellow (0%)
- Black (56%)





- Cyan (81%)
- Magenta (69%)
- Yellow (56%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 22.448, 267.715 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 33, 22.448, 267.715 by changing the saturation by 10% instead.


 33, 22.448,
267.715


 33, 22.448,
267.715

 100, 22.448,
267.715


 23, 22.448,
267.715

 53, 22.448,
267.715


 13, 22.448,
267.715


 63, 22.448,
267.715

 3, 22.448, 267.715

 73, 22.448,
267.715

 0, 22.448, 267.715

 83, 22.448,
267.715

 93, 22.448,
267.715

■ 33, 22.448,
267.715

■ 33, 22.448,
267.715

■ 31, 26.240,
270.779

■ 35, 18.610,
265.076

■ 28, 30.015,
274.278

■ 38, 14.717,
262.826

■ 26, 33.816,
278.169

■ 41, 10.769,
260.917

■ 24, 37.713,
282.199

■ 43, 6.774, 259.302

■ 23, 39.018,
283.385

■ 46, 2.744, 257.967

■ 48, 1.308, 76.515

■ 51, 5.370, 75.629

■ 54, 9.431, 74.762

■ 56, 13.481, 73.997

Harmonies

Complementary

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



33, 22.448, 267.715



37, 25.836, 70.160

Rectangle

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



33, 22.448, 267.715



33, 22.448, 317.715



33, 22.448, 87.715



33, 22.448, 137.715

Sweetspot

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



33, 22.447, 267.715



55, 8.457, 259.402



43, 30.993, 157.826



28, 5.697, 259.625



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



33, 22.447, 267.715



39, 32.855, 271.772



24, 42.225, 298.278



22, 2.270, 258.236



25, 41.022, 283.710



52, 74.118, 286.401

Inverse Universe

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



30, 32.504, 350.593



36, 46.282, 352.927



46, 36.203, 105.121



22, 3.195, 345.152



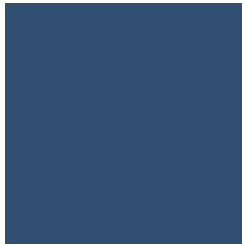
25, 48.519, 1.654



53, 82.572, 4.363

Previews

White Background



This preview shows how the CIE LCh color 33, 22.448, 267.715 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 33, 22.448, 267.715 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

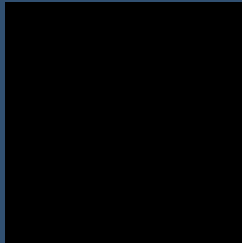
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

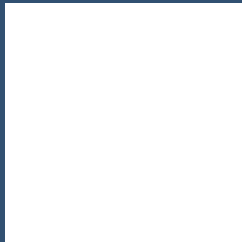
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 33, 22.448, 267.715

Background



This preview shows how black text looks on a background with the CIELCh color 33, 22.448, 267.715.

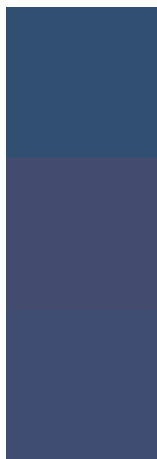


This preview shows how white text looks on a background with the CIELCh color 33, 22.448, 267.715.

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

33, 22.448, 267.715

Protanopia

33, 21.555, 285.419

Deuteranopia

33, 23.015, 281.334



Tritanopia
33, 15.625, 214.037

Trichromacy



Original Color
33, 22.448, 267.715

Protanomaly
33, 21.940, 278.660

Deuteranomaly
33, 22.771, 276.222

Tritanomaly
33, 16.418, 239.238

Monochromacy



Original Color
33, 22.448, 267.715

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 8.632, 261.356

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 22.448, 267.715 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(49, 80, 113)` looks like.

```
.text, #text, p{  
    color:rgb(49, 80, 113)  
}
```

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(49, 80, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 80, 113) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 22.448, 267.715 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(49, 80, 113) }
```

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

```
.border{ border-color:rgb(49, 80, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 80, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 80, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 80, 113);  
box-shadow:4px 4px 4px 4px rgb(49, 80,  
113) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 22.448, 267.715 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 80, 113) }
```

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

```
.background{ background-color: rgb(49, 80,  
113) }
```

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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