

Converting Colors

CIELCh(32, 66.786, 298.021)

Have a look what the booklet for
CIELCh(32, 66.786, 298.021)
contains.

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Color

CIELCh(32, 66.768, 297.896)

Conversions

Conversions Part 1

Format	Color
Hex	313FAA
RGB	49, 63, 170
RGB Percent	19%, 25%, 67%
CMY	0.8086, 0.7534, 0.3339
CMYK	0.71, 0.63, 0.00, 0.33
HSL	233°, 55%, 43%
HSV	233°, 71%, 67%
XYZ	10.2683, 7.0852, 38.7798
YIQ	71.0120, -42.6910, 30.3090

Conversions

Conversions Part 2

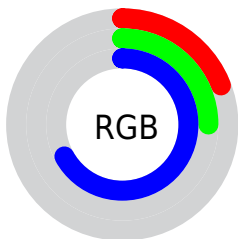
Format	Color
R _{YB}	49, 62, 170
Decimal	3227562
CIE _{Lab}	32.00, 31.24, -59.01
CIE _{LCh}	32, 66.768, 297.896
Yxy	7.0852, 0.1829, 0.1262
Android (android.graphics.Color)	4281417642 (0xFF313FAA)
YUV	71.0120, 48.8011, -19.3045
Hunter-Lab	26.6180, 22.2778, -67.7472

Details

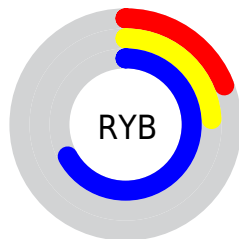
The CIELCh color **32, 66.768, 297.896** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **64, 55.480, 97.456**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **52, 66.416, 297.703**, and **15, 64.976, 302.047** is the 20% darker color. If you saturate the color by 10%, you get **28, 76.942, 300.498**, and if you desaturate by 10%, it is **37, 56.450, 295.349**.

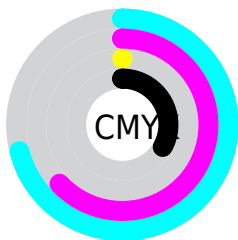
Distribution



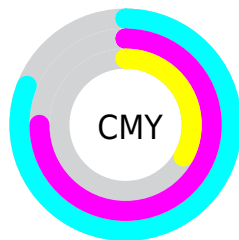
- Red (19%)
- Green (25%)
- Blue (67%)



- Red (19%)
- Yellow (24%)
- Blue (67%)



- Cyan (71%)
- Magenta (63%)
- Yellow (0%)
- Black (33%)





- Cyan (81%)
- Magenta (75%)
- Yellow (33%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 32, 66.768, 297.896 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 32, 66.768, 297.896 by changing the saturation by 10% instead.


 32, 66.768,
297.896


 32, 66.768,
297.896

 100, 66.768,
297.896


 22, 66.768,
297.896

 52, 66.768,
297.896


 12, 66.768,
297.896


 62, 66.768,
297.896

 2, 66.768, 297.896

 72, 66.768,
297.896

 0, 66.768, 297.896

 82, 66.768,
297.896

 92, 66.768,
297.896

■ 32, 66.768,
297.896

■ 32, 66.768,
297.896

■ 28, 76.942,
300.498

■ 37, 56.450,
295.349

■ 24, 86.200,
302.900

■ 42, 46.352,
293.004

■ 22, 92.695,
304.534

■ 47, 36.601,
290.929

■ 53, 27.217,
289.130

■ 58, 18.182,
287.589

■ 64, 9.469, 286.275

■ 69, 1.053, 285.232

■ 74, 7.088, 104.154

■ 79, 14.972,
103.327

Harmonies

Complementary

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



32, 66.768, 297.896



64, 55.480, 97.456

Rectangle

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



32, 66.768, 297.896



32, 66.768, 347.896



32, 66.768, 117.896



32, 66.768, 167.896

Sweetspot

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



32, 66.768, 297.897



74, 22.318, 287.606



63, 36.075, 183.637



38, 15.299, 287.995



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



32, 66.768, 297.897



34, 101.240, 302.053



33, 74.111, 309.397



33, 4.706, 286.039



18, 83.113, 304.321



1, 8.619, 285.804

Inverse Universe

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



40, 53.940, 22.432



48, 79.436, 29.158



64, 64.129, 121.919



33, 3.761, 10.544



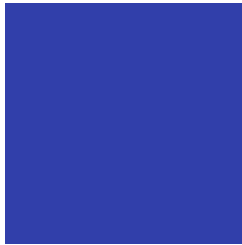
30, 64.780, 34.096



1, 6.654, 11.145

Previews

White Background



This preview shows how the CIE LCh color 32, 66.768, 297.896 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 32, 66.768, 297.896 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

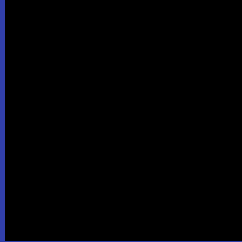
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 32, 66.768, 297.896

Background



This preview shows how black text looks on a background with the CIELCh color 32, 66.768, 297.896.



This preview shows how white text looks on a background with the CIELCh color 32, 66.768, 297.896.

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


32, 66.768, 297.896

Protanopia

32, 51.504, 286.135

Deuteranopia

32, 35.985, 272.432



Tritanopia
32, 21.445, 206.982

Trichromacy



Original Color
32, 66.768, 297.896

Protanomaly
32, 56.836, 290.407

Deuteranomaly
31, 46.625, 284.889

Tritanomaly
31, 29.168, 266.286

Monochromacy



Original Color
32, 66.768, 297.896

Achromatopsia
30, 0.005, 296.813

Achromatomaly
30, 24.968, 290.684

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 32, 66.768, 297.896 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, 63, 170)` looks like.

```
.text, #text, p{  
    color:rgb(49, 63, 170)  
}
```

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, 63, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 63, 170) }
```

Border

The CSS property to change the border of an element to CIELCh 32, 66.768, 297.896 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, 63, 170) }
```

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

```
.border{ border-color:rgb(49, 63, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 63, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 63, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 63, 170);  
box-shadow:4px 4px 4px 4px rgb(49, 63,  
170) }
```

Background

The CSS property to change the background color of an element to CIELCh 32, 66.768, 297.896 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 63, 170) }
```

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

```
.background{ background-color: rgb(49, 63,  
170) }
```

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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