

Converting Colors

CIELCh(32, 12.013, 216.535)

Have a look what the booklet for
CIELCh(32, 12.013, 216.535)
contains.

CIELCh(32, 12.011, 216.507)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(32, 12.011, 216.507)

Conversions

Conversions Part 1

Format	Color
Hex	315056
RGB	49, 80, 86
RGB Percent	19%, 31%, 34%
CMY	0.8074, 0.6858, 0.6623
CMYK	0.43, 0.07, 0.00, 0.66
HSL	190°, 27%, 27%
HSV	190°, 43%, 34%
XYZ	5.8348, 7.0852, 9.8903
YIQ	71.4150, -20.4020, -4.7060

Conversions

Conversions Part 2

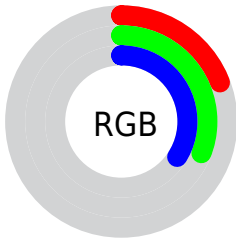
Format	Color
R_{YB}	49, 66, 86
Decimal	3231830
CIE _{Lab}	32.00, -9.65, -7.15
CIE _{LCh}	32, 12.011, 216.507
Yxy	7.0852, 0.2558, 0.3106
Android (android.graphics.Color)	4281421910 (0xFF315056)
YUV	71.4150, 7.1904, -19.6580
Hunter-Lab	26.6180, -7.4531, -3.3975

Details

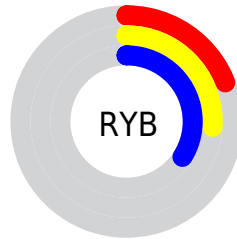
The CIELCh color **32, 12.011, 216.507** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **27, 16.058, 35.937**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **52, 12.130, 218.048**, and **12, 11.892, 218.757** is the 20% darker color. If you saturate the color by 10%, you get **31, 14.150, 217.255**, and if you desaturate by 10%, it is **33, 9.578, 215.966**.

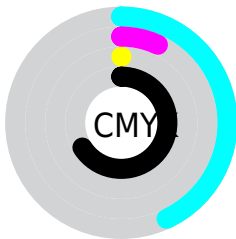
Distribution



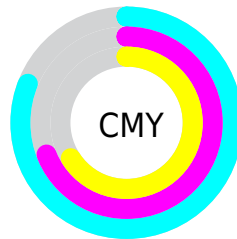
- Red (19%)
- Green (31%)
- Blue (34%)



- Red (19%)
- Yellow (26%)
- Blue (34%)



- Cyan (43%)
- Magenta (7%)
- Yellow (0%)
- Black (66%)





- Cyan (81%)
- Magenta (69%)
- Yellow (66%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 32, 12.011, 216.507 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, 12.011, 216.507 by changing the saturation by 10% instead.


 32, 12.011,
216.507


 32, 12.011,
216.507

 100, 12.011,
216.507


 22, 12.011,
216.507

 52, 12.011,
216.507


 12, 12.011,
216.507


 62, 12.011,
216.507

 2, 12.011, 216.507

 72, 12.011,
216.507

 0, 12.011, 216.507

 82, 12.011,
216.507

 92, 12.011,
216.507

■ 32, 12.011,
216.507

■ 32, 12.011,
216.507

■ 31, 14.150,
217.255

■ 33, 9.578, 215.966

■ 30, 15.958,
218.263

■ 34, 6.894, 215.605

■ 29, 17.408,
219.579

■ 35, 4.000, 215.401

■ 29, 18.486,
221.258

■ 37, 2.263, 35.031

■ 28, 19.246,
223.286

■ 39, 5.564, 35.140

■ 28, 19.771,
224.669

■ 40, 8.942, 35.245

■ 41, 12.375, 35.378

■ 43, 15.845, 35.539

Harmonies

Complementary

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



32, 12.011, 216.507



27, 16.058, 35.937

Rectangle

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



32, 12.011, 216.507



32, 12.011, 266.507



32, 12.011, 36.507



32, 12.011, 86.507

Sweetspot

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



32, 12.011, 216.504



45, 4.984, 215.407



33, 25.308, 145.689



22, 3.437, 215.428



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



32, 12.011, 216.504



41, 17.214, 217.324



26, 16.229, 276.417



17, 1.754, 215.371



35, 23.006, 225.584



73, 40.877, 227.835

Inverse Universe

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



26, 25.110, 331.700



32, 37.198, 332.349



32, 16.490, 84.594



16, 3.294, 329.694



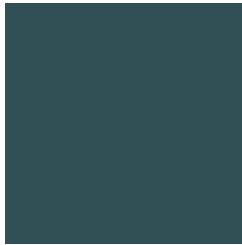
23, 54.104, 335.499



54, 95.420, 336.079

Previews

White Background



This preview shows how the CIELCh color 32, 12.011, 216.507 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, 12.011, 216.507 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

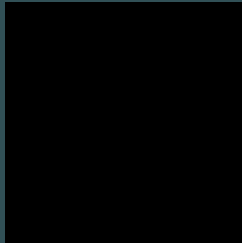
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 32, 12.011, 216.507

Background



This preview shows how black text looks on a background with the CIELCh color 32, 12.011, 216.507.



This preview shows how white text looks on a background with the CIELCh color 32, 12.011, 216.507.

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, 12.011, 216.507

Protanopia
32, 5.080, 286.378

Deuteranopia
32, 9.632, 299.163



Tritanopia
32, 12.133, 219.554

Trichromacy



Original Color
32, 12.011, 216.507

Protanomaly
32, 6.462, 242.446

Deuteranomaly
32, 7.919, 261.242

Tritanomaly
32, 12.133, 219.554

Monochromacy



Original Color
32, 12.011, 216.507

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 4.729, 214.480

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 32, 12.011, 216.507 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, 86)` looks like.

```
.text, #text, p{  
    color:rgb(49, 80, 86)  
}
```

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, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 80, 86) }
```

Border

The CSS property to change the border of an element to CIELCh 32, 12.011, 216.507 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, 86) }
```

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

```
.border{ border-color:rgb(49, 80, 86) }
```

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, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 80, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 80, 86);  
box-shadow:4px 4px 4px 4px rgb(49, 80, 86)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 32, 12.011, 216.507 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, 86) }
```

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

```
.background{ background-color: rgb(49, 80,  
86) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor