

# Converting Colors

CIELCh(32, 117.768, 306.336)

Have a look what the booklet for  
CIELCh(32, 117.768, 306.336)  
contains.

<b>CIELCh(32, 117.631, 306.349)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	25
<i><b>CSS Examples</b></i> .....	28

**Color**

**CIELCh(32, 117.631, 306.349)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3317E7
RGB	51, 23, 231
RGB Percent	20%, 9%, 91%
CMY	0.8000, 0.9099, 0.0941
CMYK	0.78, 0.90, 0.00, 0.09
HSL	248°, 82%, 50%
HSV	248°, 90%, 91%
XYZ	16.0940, 7.0852, 76.1156
YIQ	55.0840, -50.0800, 70.6240

# Conversions

## Conversions Part 2

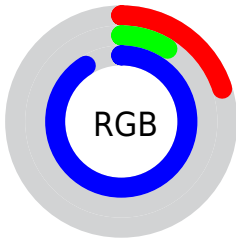
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 23, 231
Decimal	3348455
CIELab	32.00, 69.72, -94.74
CIElCh	32, 117.631, 306.349
Yxy	7.0852, 0.1621, 0.0714
Android (android.graphics.Color)	4281538535 (0xFF3317E7)
YUV	55.0840, 86.7266, -3.5817
Hunter-Lab	26.6180, 61.3448, -150.9106

# Details

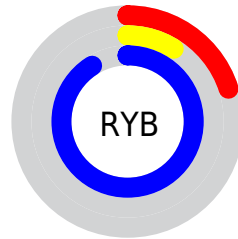
The CIELCh color **32, 117.631, 306.349** is a dark color, and the websafe version is hex **3333FF**. The color can be described as dark washed blue. A complement of this color would be **87, 88.693, 110.667**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **49, 99.940, 306.890**, and **20, 100.472, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **30, 123.300, 306.726**, and if you desaturate by 10%, it is **36, 107.825, 305.425**.

# Distribution



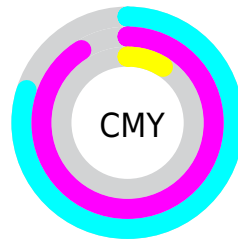
- Red (20%)
- Green (9%)
- Blue (91%)



- Red (20%)
- Yellow (9%)
- Blue (91%)



- Cyan (78%)
- Magenta (90%)
- Yellow (0%)
- Black (9%)




- Cyan (80%)
- Magenta (91%)
- Yellow (9%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 32, 117.631, 306.349 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, 117.631, 306.349 by changing the saturation by 10% instead.





 32, 117.631,  
306.349


 32, 117.631,  
306.349


 100, 117.631,  
306.349


 22, 117.631,  
306.349


 52, 117.631,  
306.349


 12, 117.631,  
306.349


 62, 117.631,  
306.349

 2, 117.631,  
306.349

 72, 117.631,  
306.349

 0, 117.631,  
306.349

 82, 117.631,  
306.349

 92, 117.631,  
306.349

■ 32, 117.631,  
306.349

■ 32, 117.631,  
306.349

■ 30, 123.300,  
306.726

■ 36, 107.825,  
305.425

■ 42, 94.996,  
304.063

■ 48, 80.813,  
302.526

■ 55, 66.341,  
301.001

■ 62, 52.107,  
299.589

■ 70, 38.326,  
298.330

■ 77, 25.062,  
297.231

■ 84, 12.319,

296.284

■ 92, 0.073, 295.668

# Harmonies

# Complementary

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



32, 117.631, 306.349



87, 88.693, 110.667

# Rectangle

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



32, 117.631, 306.349



32, 117.631, 356.349



32, 117.631, 126.349



32, 117.631, 176.349

# Sweetspot

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



32, 117.633, 306.350



78, 37.090, 297.994



75, 40.190, 219.073



39, 25.166, 298.392



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



32, 117.633, 306.350



33, 132.925, 306.701



43, 108.825, 315.855



44, 6.916, 296.231



22, 101.541, 306.807



3, 33.947, 299.991



# Inverse Universe

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



54, 95.186, 333.875



58, 103.781, 334.582



82, 101.676, 131.096



45, 7.570, 328.887



41, 79.594, 334.422

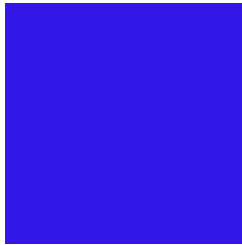


8, 33.943, 333.347



# Previews

## White Background



This preview shows how the CIELCh color 32, 117.631, 306.349 looks on a white background.

## Color Contrast Check

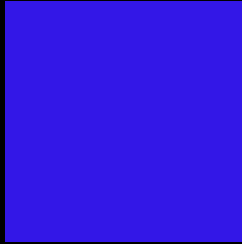
Large Text (above 18pt) WCAG AA ✓ Pass

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 32, 117.631, 306.349 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

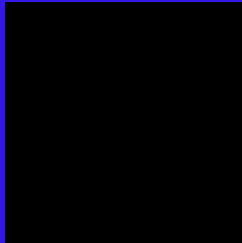
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 32, 117.631, 306.349**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 32, 117.631, 306.349.



This preview shows how white text looks on a background with the CIELCh color 32, 117.631, 306.349.





# 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, 117.631, 306.349

### Protanopia

32, 50.272, 285.223

### Deuteranopia

32, 34.918, 271.109



**Tritanopia**  
32, 21.519, 205.172

# Trichromacy



**Original Color**  
32, 117.631, 306.349

**Protanomaly**  
30, 78.809, 298.727

**Deuteranomaly**  
29, 69.027, 296.550

**Tritanomaly**  
28, 50.962, 290.223

# Monochromacy



**Original Color**  
32, 117.631, 306.349

**Achromatopsia**  
23, 0.004, 296.813

**Achromatomaly**  
23, 50.048, 302.837

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 32, 117.631, 306.349 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(51, 23, 231)` looks like.

```
.text, #text, p{  
    color:rgb(51, 23, 231)  
}
```

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(51, 23, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 23, 231) }
```

## Border

The CSS property to change the border of an element to CIELCh 32, 117.631, 306.349 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(51, 23, 231) }
```

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

```
.border{ border-color:rgb(51, 23, 231) }
```

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

Here you see how a box with a 4 pixel rgb(51, 23, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 23, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 23, 231);  
box-shadow:4px 4px 4px 4px rgb(51, 23,  
231) }
```

# Background

The CSS property to change the background color of an element to CIELCh 32, 117.631, 306.349 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 23, 231) }
```

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

```
.background{ background-color: rgb(51, 23,  
231) }
```

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