

Converting Colors

CIELCh(28, 45.432, 137.631)

Have a look what the booklet for
CIELCh(28, 45.432, 137.631)
contains.

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Color

CIELCh(28, 45.328, 137.467)

Conversions

Conversions Part 1

Format	Color
Hex	0C4D0C
RGB	12, 77, 12
RGB Percent	5%, 30%, 5%
CMY	0.9511, 0.6969, 0.9517
CMYK	0.84, 0.00, 0.84, 0.70
HSL	120°, 73%, 18%
HSV	120°, 84%, 30%
XYZ	2.9008, 5.4574, 1.2585
YIQ	50.1550, -17.8750, -33.9950

Conversions

Conversions Part 2

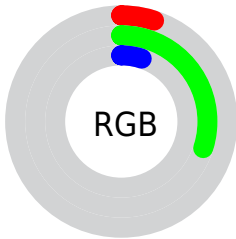
Format	Color
RYB	12, 77, 77
Decimal	806156
CIELab	28.00, -33.40, 30.64
CIELCh	28, 45.328, 137.467
Yxy	5.4574, 0.3016, 0.5675
Android (android.graphics.Color)	4278996236 (0xFF0C4D0C)
YUV	50.1550, -18.8104, -33.4619
Hunter-Lab	23.3610, -18.7170, 13.1587

Details

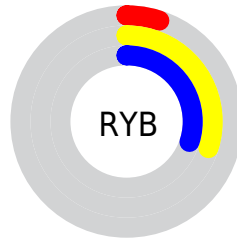
The CIELCh color **28, 45.328, 137.467** is a dark color, and the websafe version is hex **003300**. A complement of this color would be **17, 44.334, 327.845**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 45.594, 137.427**, and **10, 25.067, 143.948** is the 20% darker color. If you saturate the color by 10%, you get **28, 48.451, 136.593**, and if you desaturate by 10%, it is **28, 41.563, 138.415**.

Distribution



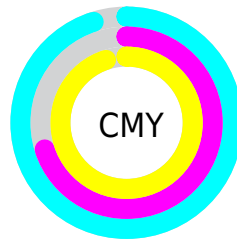
- Red (5%)
- Green (30%)
- Blue (5%)



- Red (5%)
- Yellow (30%)
- Blue (30%)



- Cyan (84%)
- Magenta (0%)
- Yellow (84%)
- Black (70%)



- Cyan (95%)
- Magenta (70%)
- Yellow (95%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 28, 45.328, 137.467 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 28, 45.328, 137.467 by changing the saturation by 10% instead.

 28, 45.328,
137.467


 28, 45.328,
137.467

 100, 45.328,
137.467


 18, 45.328,
137.467


 48, 45.328,
137.467

 8, 45.328, 137.467

 58, 45.328,
137.467

 0, 45.328, 137.467

 68, 45.328,
137.467

 78, 45.328,
137.467

 88, 45.328,
137.467

 98, 45.328,

137.467

■ 28, 45.328,
137.467

■ 28, 45.328,
137.467

■ 28, 48.451,
136.593

■ 28, 41.563,
138.415

■ 28, 50.427,
136.012

■ 29, 37.006,
139.433

■ 29, 31.854,
140.439

■ 30, 26.284,
141.378

■ 30, 20.445,
142.226

■ 31, 14.460,
142.975

■ 32, 8.426, 143.630

■ 32, 2.417, 144.229

■ 33, 3.511, 324.619

Harmonies

Complementary

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



28, 45.328, 137.467



17, 44.334, 327.845

Rectangle

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



28, 45.328, 137.467



28, 45.328, 187.467



28, 45.328, 317.467



28, 45.328, 7.467

Sweetspot

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



28, 45.328, 137.468



40, 18.509, 142.845



31, 36.055, 102.715



19, 12.732, 142.706



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



28, 45.328, 137.468



36, 60.027, 135.996



28, 32.041, 153.251



15, 3.304, 143.954



37, 61.104, 135.997



80, 110.595, 136.009

Inverse Universe

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



17, 44.334, 327.845



22, 57.937, 328.145



16, 32.868, 352.913



14, 3.310, 324.780



23, 58.976, 328.145



54, 106.727, 328.139

Previews

White Background



This preview shows how the CIE LCh color 28, 45.328, 137.467 looks on a white background.

Color Contrast Check

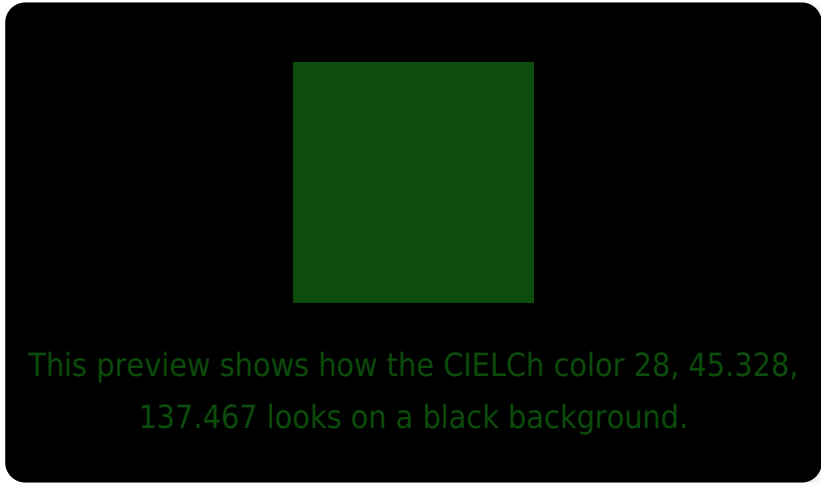
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

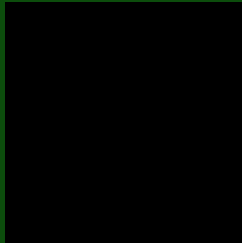
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 28, 45.328, 137.467

Background



This preview shows how black text looks on a background with the CIELCh color 28, 45.328, 137.467.



This preview shows how white text looks on a background with the CIELCh color 28, 45.328, 137.467.

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
28, 45.328, 137.467

Protanopia
28, 33.291, 95.255

Deuteranopia
28, 28.896, 82.946



Tritanopia
28, 13.913, 213.849

Trichromacy



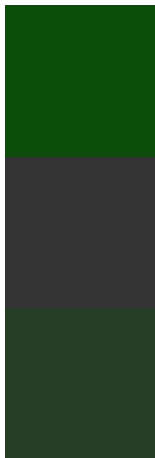
Original Color
28, 45.328, 137.467

Protanomaly
27, 35.586, 118.447

Deuteranomaly
27, 31.010, 114.678

Tritanomaly
28, 22.961, 161.762

Monochromacy



Original Color
28, 45.328, 137.467

Achromatopsia
21, 0.004, 296.813

Achromatomaly
23, 19.366, 141.974

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 45.328, 137.467 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(12, 77, 12)` looks like.

```
.text, #text, p{  
    color:rgb(12, 77, 12)  
}
```

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(12, 77, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 77, 12) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 45.328, 137.467 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(12, 77, 12) }
```

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

```
.border{ border-color:rgb(12, 77, 12) }
```

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

Here you see how a box with a 4 pixel rgb(12, 77, 12) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 77, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 77, 12);  
box-shadow:4px 4px 4px 4px rgb(12, 77, 12)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 45.328, 137.467 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 77, 12) }
```

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

```
.background{ background-color: rgb(12, 77,  
12) }
```

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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