

Converting Colors

CIELCh(28, 18.780, 136.613)

Have a look what the booklet for
CIELCh(28, 18.780, 136.613)
contains.

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Color

CIELCh(28, 18.492, 137.143)

Conversions

Conversions Part 1

Format	Color
Hex	33472E
RGB	51, 71, 46
RGB Percent	20%, 28%, 18%
CMY	0.7988, 0.7203, 0.8185
CMYK	0.28, 0.00, 0.35, 0.72
HSL	108°, 21%, 23%
HSV	108°, 35%, 28%
XYZ	4.1524, 5.4574, 3.4495
YIQ	62.1700, -3.8950, -12.0150

Conversions

Conversions Part 2

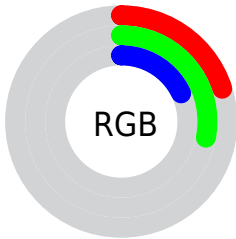
Format	Color
RYB	46, 71, 66
Decimal	3360558
CIELab	28.00, -13.56, 12.58
CIELCh	28, 18.492, 137.143
Yxy	5.4574, 0.3180, 0.4179
Android (android.graphics.Color)	4281550638 (0xFF33472E)
YUV	62.1700, -7.9718, -9.7961
Hunter-Lab	23.3610, -9.1533, 7.5979

Details

The CIELCh color **28, 18.492, 137.143** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **22, 18.755, 320.187**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 18.838, 137.284**, and **8, 17.658, 138.540** is the 20% darker color. If you saturate the color by 10%, you get **27, 23.658, 136.560**, and if you desaturate by 10%, it is **29, 13.231, 137.686**.

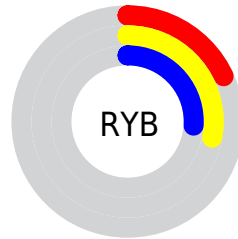
Distribution



Red (20%)

Green (28%)

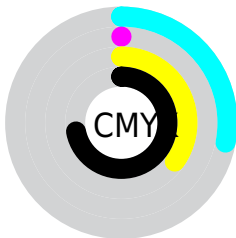
Blue (18%)



Red (18%)

Yellow (28%)

Blue (26%)

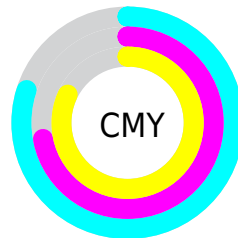


Cyan (28%)

Magenta (0%)

Yellow (35%)

Black (72%)



Cyan (80%)


Magenta (72%)


Yellow (82%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 18.492, 137.143 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, 18.492, 137.143 by changing the saturation by 10% instead.

 28, 18.492,
137.143


 28, 18.492,
137.143

 100, 18.492,
137.143


 18, 18.492,
137.143


 48, 18.492,
137.143


 8, 18.492, 137.143

 58, 18.492,
137.143

 0, 18.492, 137.143

 68, 18.492,
137.143

 78, 18.492,
137.143

 88, 18.492,
137.143

 98, 18.492,

137.143

■ 28, 18.492,
137.143

■ 28, 18.492,
137.143

■ 27, 23.658,
136.560

■ 29, 13.231,
137.686

■ 27, 28.643,
135.953

■ 29, 7.937, 138.180

■ 27, 33.336,
135.359

■ 30, 2.661, 138.642

■ 31, 2.563, 318.950

■ 26, 37.594,
134.833

■ 31, 7.708, 319.314

■ 26, 41.247,
134.457

■ 32, 12.756,
319.613

■ 26, 44.507,
133.998

■ 33, 17.695,
319.870

■ 26, 46.083,
133.676

■ 34, 22.518,
320.093

■ 35, 27.222,
320.285

Harmonies

Complementary

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



28, 18.492, 137.143



22, 18.755, 320.187

Rectangle

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



28, 18.492, 137.143



28, 18.492, 187.143



28, 18.492, 317.143



28, 18.492, 7.143

Sweetspot

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



28, 18.493, 137.144



38, 7.125, 138.351



28, 12.857, 95.671



18, 4.719, 138.328



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



28, 18.493, 137.144



36, 27.201, 136.649



28, 16.080, 151.095



14, 2.925, 138.479



36, 58.490, 134.044



79, 107.854, 134.773

Inverse Universe

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



22, 18.755, 320.187



27, 27.661, 320.506



23, 16.234, 335.844



13, 2.940, 319.121



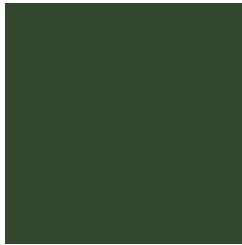
18, 58.941, 321.101



46, 107.884, 320.605

Previews

White Background



This preview shows how the CIELCh color 28, 18.492, 137.143 looks on a white background.

Color Contrast Check

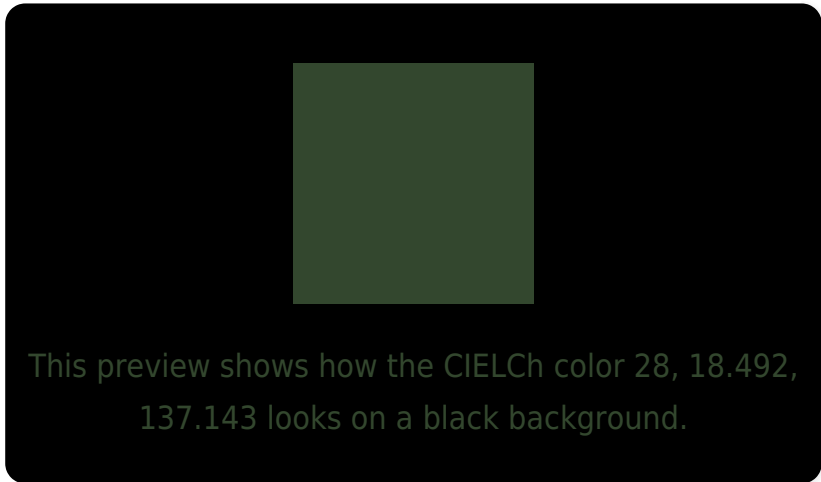
Large Text (above 18pt) WCAG AA ✓ Pass

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, 18.492, 137.143

Background



This preview shows how black text looks on a background with the CIELCh color 28, 18.492, 137.143.



This preview shows how white text looks on a background with the CIELCh color 28, 18.492, 137.143.

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](#).

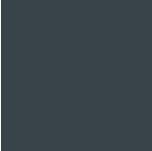
Dichromacy



Original Color
28, 18.492, 137.143

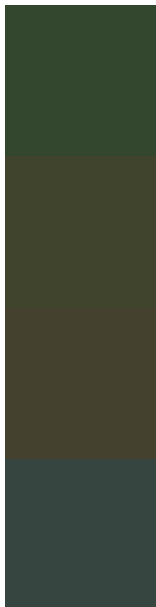
Protanopia
28, 14.302, 97.360

Deuteranopia
28, 12.318, 71.092



Tritanopia
28, 5.835, 232.626

Trichromacy



Original Color
28, 18.492, 137.143

Protanomaly
28, 14.783, 114.844

Deuteranomaly
28, 12.225, 103.152

Tritanomaly
28, 7.654, 167.646

Monochromacy



Original Color
28, 18.492, 137.143

Achromatopsia
26, 0.004, 296.813

Achromatomaly
27, 6.694, 137.597

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 28, 18.492, 137.143 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, 71, 46)` looks like.

```
.text, #text, p{  
    color:rgb(51, 71, 46)  
}
```

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, 71, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 71, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 28, 18.492, 137.143 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, 71, 46) }
```

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

```
.border{ border-color:rgb(51, 71, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 71, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 71, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 71, 46);  
box-shadow:4px 4px 4px 4px rgb(51, 71, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 28, 18.492, 137.143 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 71, 46) }
```

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

```
.background{ background-color: rgb(51, 71,  
46) }
```

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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