

Converting Colors

CIELCh(46, 22.332, 212.816)

Have a look what the booklet for
CIELCh(46, 22.332, 212.816)
contains.

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Color

CIELCh(46, 22.520, 212.666)

Conversions

Conversions Part 1

Format	Color
Hex	2F7781
RGB	47, 119, 129
RGB Percent	18%, 47%, 51%
CMY	0.8175, 0.5349, 0.4957
CMYK	0.64, 0.08, 0.00, 0.50
HSL	187°, 47%, 34%
HSV	187°, 64%, 50%
XYZ	11.6378, 15.2687, 22.9654
YIQ	98.6120, -46.1220, -12.1540

Conversions

Conversions Part 2

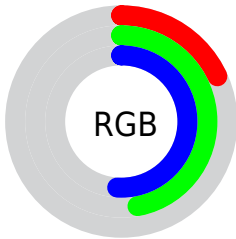
Format	Color
RYB	47, 85, 129
Decimal	3110785
CIELab	46.00, -18.96, -12.15
CIELCh	46, 22.520, 212.666
Yxy	15.2687, 0.2334, 0.3062
Android (android.graphics.Color)	4281300865 (0xFF2F7781)
YUV	98.6120, 14.9813, -45.2637
Hunter-Lab	39.0751, -15.2186, -7.4936




Details

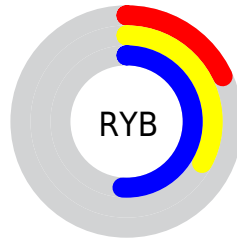
The CIELCh color **46, 22.520, 212.666** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **33, 37.011, 35.011**, and the grayscale version is **42, 0.006, 296.813**.




A 20% lighter version of the original color is **66, 22.361, 213.687**, and **27, 19.062, 217.133** is the 20% darker color. If you saturate the color by 10%, you get **45, 24.314, 213.703**, and if you desaturate by 10%, it is **47, 20.162, 211.902**.

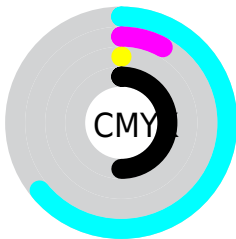
Distribution







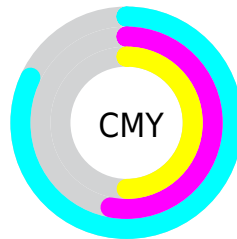
-  Red (18%)
-  Green (47%)
-  Blue (51%)






-  Red (18%)
-  Yellow (33%)
-  Blue (51%)



-  Cyan (64%)
-  Magenta (8%)
-  Yellow (0%)
-  Black (50%)



-  Cyan (82%)
-  Magenta (53%)
-  Yellow (50%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 22.520, 212.666 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 46, 22.520, 212.666 by changing the saturation by 10% instead.

 46, 22.520,
212.666

 46, 22.520,
212.666

 100, 22.520,
212.666

 36, 22.520,
212.666

 66, 22.520,
212.666

 26, 22.520,
212.666

 76, 22.520,
212.666

 16, 22.520,
212.666

 86, 22.520,
212.666

 6, 22.520, 212.666

 96, 22.520,
212.666

 0, 22.520, 212.666

 46, 22.520,

 46, 22.520,

212.666

212.666

■ 45, 24.314,
213.703

■ 47, 20.162,
211.902

■ 44, 25.535,
215.063

■ 48, 17.279,
211.372

■ 44, 26.220,
216.781

■ 49, 13.927,
211.036

■ 43, 26.546,
217.907

■ 50, 10.171,
210.861

■ 52, 6.080, 210.828

■ 53, 1.720, 211.035

■ 55, 2.851, 30.781

■ 56, 7.581, 31.048

■ 58, 12.425, 31.295

Harmonies

Complementary

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



46, 22.520, 212.666



33, 37.011, 35.011

Rectangle

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



46, 22.520, 212.666



46, 22.520, 262.666



46, 22.520, 32.666



46, 22.520, 82.666

Sweetspot

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



46, 22.520, 212.665



66, 10.254, 210.829



48, 51.652, 142.040



33, 6.972, 210.843



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



46, 22.520, 212.665



58, 30.423, 214.343



33, 32.486, 279.649



26, 2.495, 210.869



43, 26.382, 217.886



0, 0.000, 0.000

Inverse Universe

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



34, 50.622, 331.593



41, 70.865, 332.416



43, 33.892, 78.513



25, 4.692, 328.427



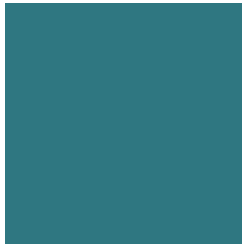
29, 63.019, 333.569



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIE LCh color 46, 22.520, 212.666 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 × Fail

Black Background



This preview shows how the CIELCh color 46, 22.520, 212.666 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

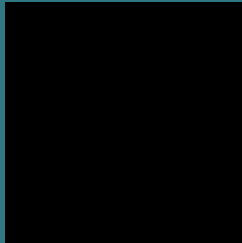
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 22.520, 212.666

Background



This preview shows how black text looks on a background with the CIELCh color 46, 22.520, 212.666.

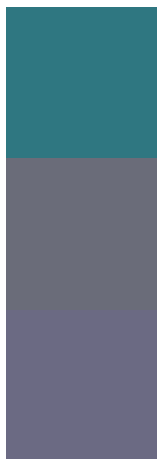


This preview shows how white text looks on a background with the CIELCh color 46, 22.520, 212.666.

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


46, 22.520, 212.666

Protanopia

46, 7.759, 285.512

Deuteranopia

46, 14.911, 293.654



Tritanopia
46, 22.689, 210.939

Trichromacy



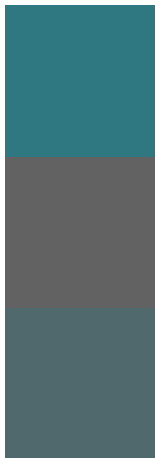
Original Color
46, 22.520, 212.666

Protanomaly
46, 12.176, 234.660

Deuteranomaly
46, 14.284, 251.533

Tritanomaly
46, 22.689, 210.939

Monochromacy



Original Color
46, 22.520, 212.666

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 10.063, 212.265

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 22.520, 212.666 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(47, 119, 129)` looks like.

```
.text, #text, p{  
    color:rgb(47, 119, 129)  
}
```

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(47, 119, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 119, 129) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 22.520, 212.666 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(47, 119, 129) }
```

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

```
.border{ border-color:rgb(47, 119, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 119, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 119, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 119, 129);  
box-shadow:4px 4px 4px 4px rgb(47, 119,  
129) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 22.520, 212.666 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 119, 129) }
```

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

```
.background{ background-color: rgb(47, 119,  
129) }
```

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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