

# Converting Colors

Hex(002277)

Have a look what the booklet for  
Hex(002277) contains.

<b>Hex(002277)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	26
<b><i>CSS Examples</i></b> .....	29

# Color

**Hex(002277)**

# Conversions

## Conversions Part 1

Format	Color
Hex	002277
RGB	0, 34, 119
RGB Percent	0%, 13%, 47%
CMY	1.0000, 0.8667, 0.5333
CMYK	1.00, 0.71, 0.00, 0.53
HSL	223°, 100%, 23%
HSV	223°, 100%, 47%
XYZ	3.9018, 2.4760, 17.7250
YIQ	33.5240, -47.5490, 19.2270

# Conversions

## Conversions Part 2

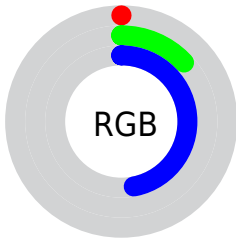
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 26, 119
Decimal	8823
CIELab	17.81, 26.75, -50.91
CIELCh	18, 57.512, 297.720
Yxy	2.4760, 0.1619, 0.1027
Android (android.graphics.Color)	4278198903 (0xFF002277)
YUV	33.5240, 42.1397, -29.4005
Hunter-Lab	15.7352, 16.7254, -55.7730

# Details

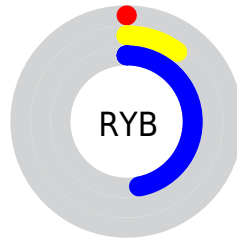
The Hex color **002277** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **775500**, and the grayscale version is **212121**.

A 20% lighter version of the original color is **4C4EAC**, and **000045** is the 20% darker color. If you saturate the color by 10%, you get **002277**, and if you desaturate by 10%, it is **0C2A77**.

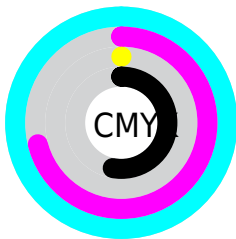
# Distribution



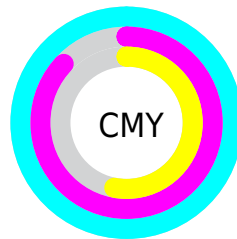
- Red (0%)
- Green (13%)
- Blue (47%)



- Red (0%)
- Yellow (10%)
- Blue (47%)



- Cyan (100%)
- Magenta (71%)
- Yellow (0%)
- Black (53%)



- Cyan (100%)
- Magenta (87%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 002277 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 Hex color 002277 by changing the saturation by 10% instead.



■ 002277

■ 002277

FFFFFF

■ 000F5E

■ 4C4EAC

■ 000045

■ 6866C8

■ 00042E

■ 847FE4

■ 000118

■ A099FF

■ 000000

■ BDB4FF

■ DAD0FF

■ F8ECCF

■ 002277

■ 0C2A77

■ 183377

■ 243B77

■ 304477

■ 3B4C77

■ 475577

■ 535E77

■ 5F6677

■ 6B6E77

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



003381



002277



570059

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



002277



581200



003A27

# Complementary

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



002277



775500

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



003800



002277



3A2900

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



002277



6B0004



0B3400



003B52

# Rectangle

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



002277



69003E



0B3400



003A18



# Sweetspot

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



002277



6D7A9C



007753



333B4F



CFCFCF



4F4F4F



# Same Dimension

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



002277



002C9C



180077



35363B



00237A



0047FA



# Inverse Universe

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



770022



9C002C



5F7700



3B3536



7A0023



FA0047



# Previews

## White Background



This preview shows how the Hex color 002277 looks on a white background.

## Color Contrast Check

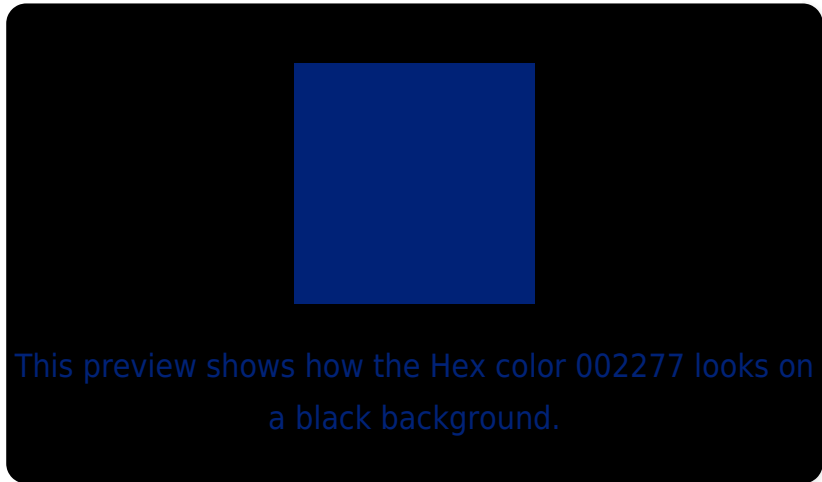
Large Text (above 18pt) WCAG AA ✓ Pass

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

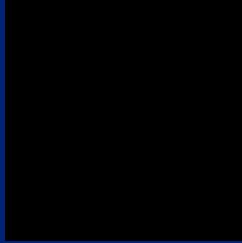
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 002277 Background



This preview shows how black text looks on a background with the Hex color 002277.



This preview shows how white text looks on a background with the Hex color 002277.

# 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**  
002277

**Protanopia**  
002B5B

**Deuteranopia**  
002E4E



# Trichromacy



**Original Color**  
002277

**Protanomaly**  
002865

**Deuteranomaly**  
002A5D

**Tritanomaly**  
002C4C

# Monochromacy



**Original Color**  
002277

**Achromatopsia**  
222222

**Achromatomaly**  
162241

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 002277 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 #002277 looks like.

```
.text, #text, p{  
    color:#002277  
}
```

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 #002277 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #002277  
}
```

## Border

The CSS property to change the border of an element to Hex 002277 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  
#002277 }
```

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

```
.border{ border-color:#002277 }
```

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

Here you see how a box with a 4 pixel #002277 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #002277; -webkit-box-shadow:4px 4px  
4px 4px #002277; box-shadow:4px 4px 4px  
4px #002277 }
```

# Background

The CSS property to change the background color of an element to Hex 002277 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#002277 }
```

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

```
.background{ background-color:#002277 }
```

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