

# Converting Colors

Hex(00166B)

Have a look what the booklet for  
Hex(00166B) contains.

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# Color

**Hex(00166B)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00166B
RGB	0, 22, 107
RGB Percent	0%, 9%, 42%
CMY	1.0000, 0.9137, 0.5804
CMYK	1.00, 0.79, 0.00, 0.58
HSL	228°, 100%, 21%
HSV	228°, 100%, 42%
XYZ	2.9408, 1.6354, 14.0706
YIQ	25.1120, -40.3970, 21.7710

# Conversions

## Conversions Part 2

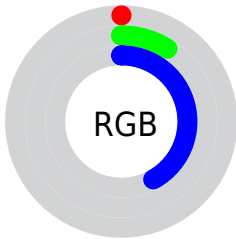
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 18, 107
Decimal	5739
CIELab	13.44, 30.05, -50.35
CIELCh	13, 58.637, 300.834
Yxy	1.6354, 0.1577, 0.0877
Android (android.graphics.Color)	4278195819 (0xFF00166B)
YUV	25.1120, 40.3708, -22.0232
Hunter-Lab	12.7881, 18.6687, -56.2843

# Details

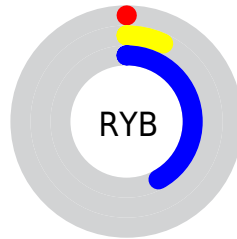
The Hex color **00166B** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **6B5500**, and the grayscale version is **191919**.

A 20% lighter version of the original color is **49419F**, and **00043A** is the 20% darker color. If you saturate the color by 10%, you get **00166B**, and if you desaturate by 10%, it is **0B1E6B**.

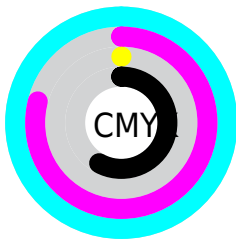
# Distribution



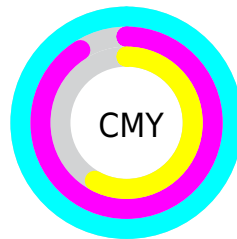
- Red (0%)
- Green (9%)
- Blue (42%)



- Red (0%)
- Yellow (7%)
- Blue (42%)



- Cyan (100%)
- Magenta (79%)
- Yellow (0%)
- Black (58%)



- Cyan (100%)
- Magenta (91%)
- Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 00166B 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 00166B by changing the saturation by 10% instead.



 00166B

 00166B

 FFF9FF

 000052

 49419F

 00043A

 6559BB

 000224

 8072D7

 00000B

 9C8BF4

 000000

 B9A6FF

 D6C1FF

 F3DDFF

 00166B

■ 0B1E6B

■ 15276B

■ 202F6B

■ 2B386B

■ 36416B

■ 40496B

■ 4B526B

■ 565A6B

■ 60626B

# Harmonies

## Analogous

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



002A77



00166B



50004B

# Triad

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



00166B



490A00



003223

# Complementary

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



00166B



6B5500

# 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.



003000



00166B



2B2200

# Square

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



00166B



5E0000



002B00



00324C

# Rectangle

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



00166B



5F0031



002B00



003114



# Sweetspot

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



00166B



626B8C



006B54



2E3347



C7C7C7



474747



# Same Dimension

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



00166B



001D8C



1E006B



303136



001875



0032F5



# Inverse Universe

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



6B0016



8C001D



4D6B00



363031



750018



F50032



# Previews

## White Background



This preview shows how the Hex color 00166B looks on a white background.

## Color Contrast Check

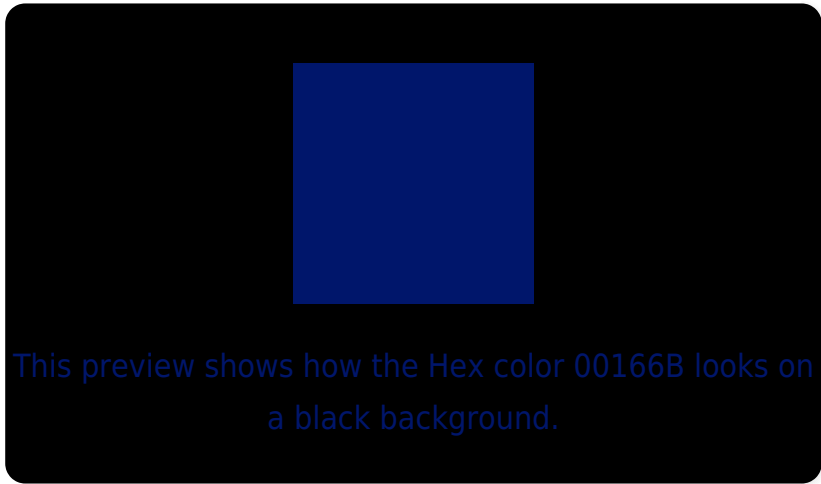
Large Text (above 18pt) WCAG AA ✓ Pass

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

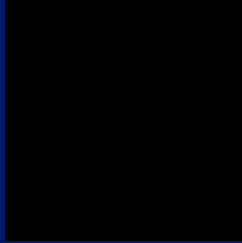
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 00166B Background



This preview shows how black text looks on a background with the Hex color 00166B.



This preview shows how white text looks on a background with the Hex color 00166B.

# 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**  
00166B

**Protanopia**  
00234A

**Deuteranopia**  
00263F



**Tritanopia**  
00292B

# Trichromacy



**Original Color**  
00166B

**Protanomaly**  
001E56

**Deuteranomaly**  
00204F

**Tritanomaly**  
002242

# Monochromacy



**Original Color**  
00166B

**Achromatopsia**  
191919

**Achromatomaly**  
101837

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 00166B 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 #00166B looks like.

```
.text, #text, p{  
    color:#00166B  
}
```

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 #00166B colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #00166B
}
```

## Border

The CSS property to change the border of an element to Hex 00166B 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
#00166B }
```

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

```
.border{ border-color:#00166B }
```

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

Here you see how a box with a 4 pixel #00166B colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #00166B; -webkit-box-shadow:4px 4px  
4px 4px #00166B; box-shadow:4px 4px 4px  
4px #00166B }
```

# Background

The CSS property to change the background color of an element to Hex 00166B is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#00166B }
```

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

```
.background{ background-color:#00166B }
```

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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