

# Converting Colors

Hex(0046B2)

Have a look what the booklet for  
Hex(0046B2) contains.

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# Color

**Hex(0046B2)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0046B2
RGB	0, 70, 178
RGB Percent	0%, 27%, 70%
CMY	1.0000, 0.7255, 0.3020
CMYK	1.00, 0.61, 0.00, 0.30
HSL	216°, 100%, 35%
HSV	216°, 100%, 70%
XYZ	10.2260, 7.5947, 43.0464
YIQ	61.3820, -76.3880, 18.7480

# Conversions

## Conversions Part 2

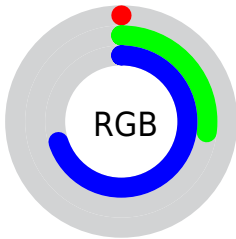
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 50, 178
Decimal	18098
CIELab	33.12, 26.07, -62.09
CIELCh	33, 67.340, 292.773
Yxy	7.5947, 0.1680, 0.1248
Android (android.graphics.Color)	4278208178 (0xFF0046B2)
YUV	61.3820, 57.4927, -53.8320
Hunter-Lab	27.5584, 18.0083, -73.3204

# Details

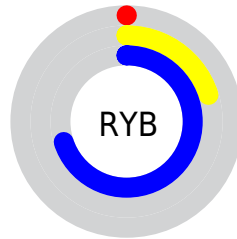
The Hex color **0046B2** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **B26C00**, and the grayscale version is **3D3D3D**.

A 20% lighter version of the original color is **5D76EB**, and **001D7C** is the 20% darker color. If you saturate the color by 10%, you get **0046B2**, and if you desaturate by 10%, it is **1251B2**.

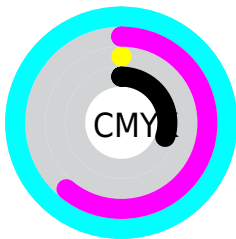
# Distribution



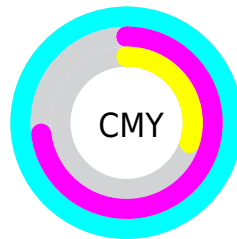
- Red (0%)
- Green (27%)
- Blue (70%)



- Red (0%)
- Yellow (20%)
- Blue (70%)



- Cyan (100%)
- Magenta (61%)
- Yellow (0%)
- Black (30%)



- Cyan (100%)
- Magenta (73%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 0046B2 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 0046B2 by changing the saturation by 10% instead.



■ 0046B2

■ 0046B2

FFFFFF

■ 003097

■ 5D76EB

■ 001D7C

■ 7C8FFF

■ 000662

■ 9AA9FF

■ 00094A

■ B8C5FF

■ 000432

■ D6E0FF

■ 00021C

■ F4FDFF

■ 000000

■ 0046B2

■ 1251B2

 245CB2

 3566B2

 4771B2

 597CB2

 6B87B2

 7D92B2

 8E9CB2

 A0A7B2

# Harmonies

## Analogous

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



0059BA



0046B2



7E228F

# Triad

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



0046B2



902B00



00623F

# Complementary

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



0046B2



B26C00

# 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.



005F00



0046B2



6B4700

# Square

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



0046B2



A50029



395700



006376

# Rectangle

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



0046B2



9A006F



395700



00612C



# Sweetspot

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



0046B2



A2BEE8



00B26B



4B5C75



F5F5F5



757575



# Same Dimension

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



0046B2



005BE8



1200B2



505459



003C99



000A1A



# Inverse Universe

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



B20046



E8005B



A0B200



595054



99003C



1A000A



# Previews

## White Background



This preview shows how the Hex color 0046B2 looks on a white background.

## Color Contrast Check

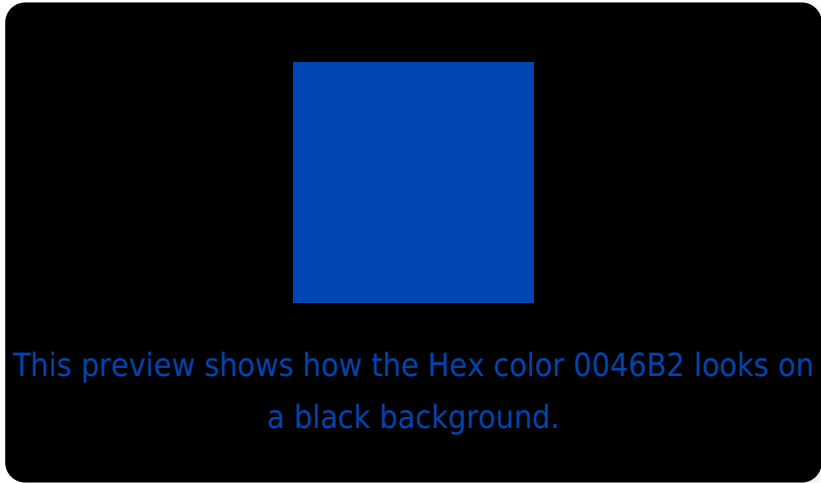
Large Text (above 18pt) WCAG AA ✓ Pass

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

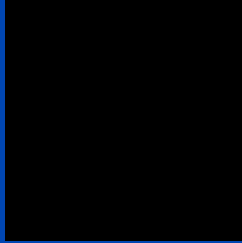
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 0046B2 Background



This preview shows how black text looks on a background with the Hex color 0046B2.



This preview shows how white text looks on a background with the Hex color 0046B2.

# 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**

0046B2

**Protanopia**

004B9F

**Deuteranopia**

005088



**Tritanopia**  
00575C

# Trichromacy



**Original Color**  
0046B2

**Protanomaly**  
0049A6

**Deuteranomaly**  
004C97

**Tritanomaly**  
00517B

# Monochromacy



**Original Color**  
0046B2

**Achromatopsia**  
3D3D3D

**Achromatomaly**  
274068

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 0046B2 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 #0046B2 looks like.

```
.text, #text, p{  
    color:#0046B2  
}
```

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 #0046B2 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #0046B2
}
```

## Border

The CSS property to change the border of an element to Hex 0046B2 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
#0046B2 }
```

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

```
.border{ border-color:#0046B2 }
```

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

Here you see how a box with a 4 pixel #0046B2 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #0046B2; -webkit-box-shadow:4px 4px  
4px 4px #0046B2; box-shadow:4px 4px 4px  
4px #0046B2 }
```

# Background

The CSS property to change the background color of an element to Hex 0046B2 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#0046B2 }
```

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

```
.background{ background-color:#0046B2 }
```

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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