

# Converting Colors

Hex(0045A8)

Have a look what the booklet for  
Hex(0045A8) contains.

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# Color

**Hex(0045A8)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0045A8
RGB	0, 69, 168
RGB Percent	0%, 27%, 66%
CMY	1.0000, 0.7294, 0.3412
CMYK	1.00, 0.59, 0.00, 0.34
HSL	215°, 100%, 33%
HSV	215°, 100%, 66%
XYZ	9.1960, 7.0834, 37.9283
YIQ	59.6550, -72.9030, 16.1610

# Conversions

## Conversions Part 2

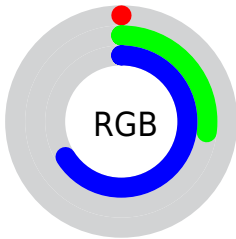
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 49, 168
Decimal	17832
CIELab	32.00, 22.66, -57.97
CIELCh	32, 62.242, 291.350
Yxy	7.0834, 0.1696, 0.1307
Android (android.graphics.Color)	4278207912 (0xFF0045A8)
YUV	59.6550, 53.4141, -52.3174
Hunter-Lab	26.6147, 15.1004, -65.8635

# Details

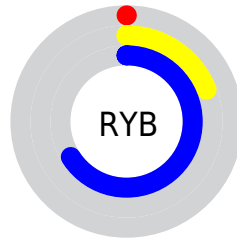
The Hex color **0045A8** is a dark color, and the websafe version is hex **003399**. A complement of this color would be **A86300**, and the grayscale version is **3B3B3B**.

A 20% lighter version of the original color is **5A75E0**, and **001C73** is the 20% darker color. If you saturate the color by 10%, you get **0045A8**, and if you desaturate by 10%, it is **114FA8**.

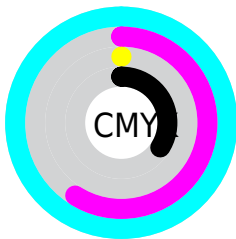
# Distribution



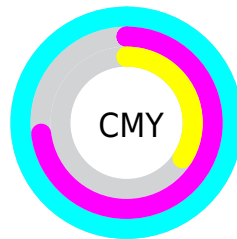
- Red (0%)
- Green (27%)
- Blue (66%)



- Red (0%)
- Yellow (19%)
- Blue (66%)



- Cyan (100%)
- Magenta (59%)
- Yellow (0%)
- Black (34%)



- Cyan (100%)
- Magenta (73%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 0045A8 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 0045A8 by changing the saturation by 10% instead.



■ 0045A8

■ 0045A8

FFFFFF

■ 002F8D

■ 5A75E0

■ 001C73

■ 788EFD

■ 00025A

■ 96A8FF

■ 000741

■ B3C3FF

■ 00032A

■ D1DFFF

■ 000114

■ EFFCFF

■ 000000

■ 0045A8

■ 114FA8

■ 2259A8

■ 3263A8

■ 436DA8

■ 5476A8

■ 6580A8

■ 768AA8

■ 8694A8

■ 979EA8

# Harmonies

## Analogous

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



0056AE



0045A8



762789

# Triad

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



0045A8



8A2B00



005E3B

# Complementary

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



0045A8



A86300

# 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.



005B00



0045A8



694400

# Square

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



0045A8



9C002B



3C5300



005F6E

# Rectangle

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



0045A8



90026C



3C5300



005D29



# Sweetspot

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



0045A8



9AB5DB



00A862



46566E



EDEDED



6E6E6E



# Same Dimension

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



0045A8



005ADB



0E00A8



4C4F54



003D94



000814



# Inverse Universe

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



A80045



DB005A



9AA800



544C4F



94003D



140008



# Previews

## White Background



This preview shows how the Hex color 0045A8 looks on a white background.

## Color Contrast Check

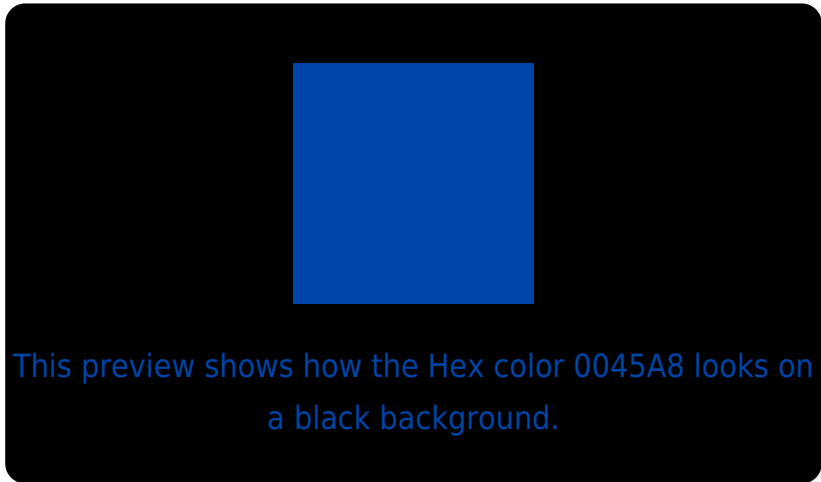
Large Text (above 18pt) WCAG AA ✓ Pass

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

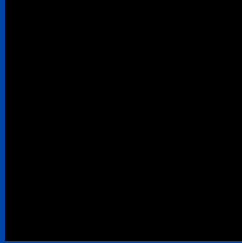
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 0045A8 Background



This preview shows how black text looks on a background with the Hex color 0045A8.



This preview shows how white text looks on a background with the Hex color 0045A8.

# 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**  
0045A8

**Protanopia**  
00499A

**Deuteranopia**  
004E84



# Trichromacy



**Original Color**  
0045A8

**Protanomaly**  
00489F

**Deuteranomaly**  
004B91

**Tritanomaly**  
004F76

# Monochromacy



**Original Color**  
0045A8

**Achromatopsia**  
3C3C3C

**Achromatomaly**  
263F63

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 0045A8 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 #0045A8 looks like.

```
.text, #text, p{  
    color:#0045A8  
}
```

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 #0045A8 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #0045A8
}
```

## Border

The CSS property to change the border of an element to Hex 0045A8 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
#0045A8 }
```

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

```
.border{ border-color:#0045A8 }
```

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

Here you see how a box with a 4 pixel #0045A8 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #0045A8; -webkit-box-shadow:4px 4px  
4px 4px #0045A8; box-shadow:4px 4px 4px  
4px #0045A8 }
```

# Background

The CSS property to change the background color of an element to Hex 0045A8 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#0045A8 }
```

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

```
.background{ background-color:#0045A8 }
```

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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