

# Converting Colors

Hex(0046E4)

Have a look what the booklet for  
Hex(0046E4) contains.

<b>Hex(0046E4)</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(0046E4)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0046E4
RGB	0, 70, 228
RGB Percent	0%, 27%, 89%
CMY	1.0000, 0.7255, 0.1059
CMYK	1.00, 0.69, 0.00, 0.11
HSL	222°, 100%, 45%
HSV	222°, 100%, 89%
XYZ	16.1937, 9.9818, 74.4720
YIQ	67.0820, -92.4380, 34.2980

# Conversions

## Conversions Part 2

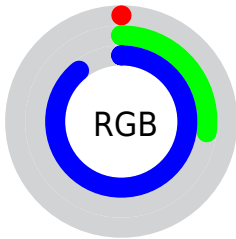
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 54, 228
Decimal	18148
CIE Lab	37.81, 45.25, -83.44
CIE LCh	38, 94.918, 298.471
Yxy	9.9818, 0.1609, 0.0992
Android (android.graphics.Color)	4278208228 (0xFF0046E4)
YUV	67.0820, 79.3326, -58.8309
Hunter-Lab	31.5939, 36.2025, -117.6404

# Details

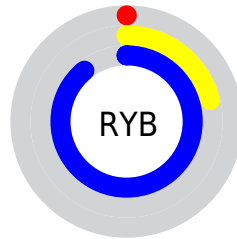
The Hex color **0046E4** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **E49E00**, and the grayscale version is **424242**.

A 20% lighter version of the original color is **6D76FF**, and **001BAB** is the 20% darker color. If you saturate the color by 10%, you get **0046E4**, and if you desaturate by 10%, it is **1756E4**.

# Distribution



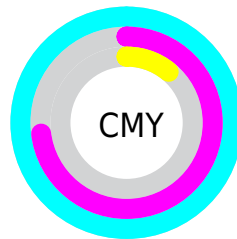
- Red (0%)
- Green (27%)
- Blue (89%)



- Red (0%)
- Yellow (21%)
- Blue (89%)



- Cyan (100%)
- Magenta (69%)
- Yellow (0%)
- Black (11%)



- Cyan (100%)
- Magenta (73%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 0046E4 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 0046E4 by changing the saturation by 10% instead.



 0046E4

 0046E4

FFFFFF

 0030C7

 6D76FF

 001BAB

 8E90FF

 000B90

 AFABFF

 000075

 CEC6FF

 000D5B

 EEE2FF

 000743

 00032B

 000116

 000000

 0046E4

 1756E4

 2E66E4

 4475E4

 5B85E4

 7295E4

 89A5E4

 A0B5E4

 B6C4E4

 CDD4E4

# Harmonies

## Analogous

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



0067F8



0046E4



AB00AB

# Triad

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



0046E4



A92A00



007353

# Complementary

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



0046E4



E49E00

# 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.



007000



0046E4



715600

# Square

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



0046E4



CD0017



146800



0075A2

# Rectangle

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



0046E4



CB007A



146800



007237



# Sweetspot

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



0046E4



B3CAFF



00E49C



526080



000000



808080



# Same Dimension

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



0046E4



004EFF



2A00E4



676B73



0037B3



001033



# Inverse Universe

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



E40046



FF004E



BAE400



73676B



B30037



330010



# Previews

## White Background



This preview shows how the Hex color 0046E4 looks on a white background.

## Color Contrast Check

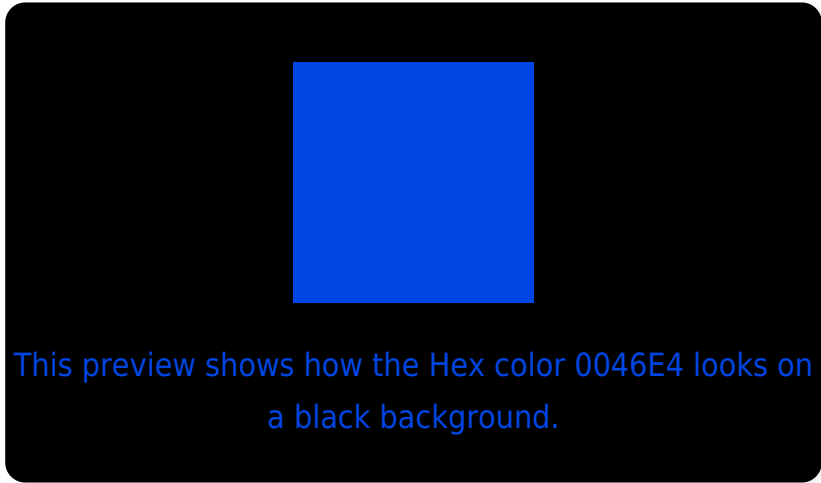
Large Text (above 18pt) WCAG AA ✓ Pass

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 ✓ Pass

Any Text WCAG AA × Fail

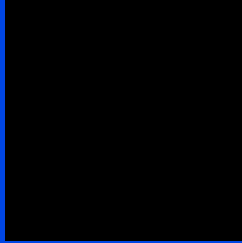
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 0046E4 Background



This preview shows how black text looks on a background with the Hex color 0046E4.

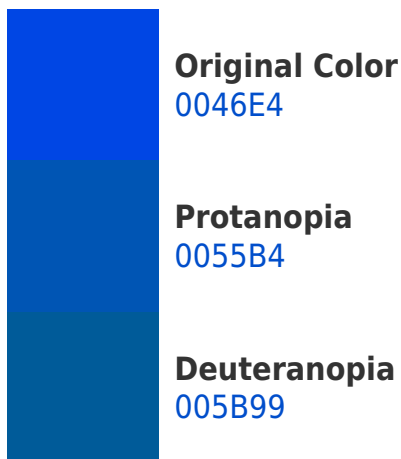


This preview shows how white text looks on a background with the Hex color 0046E4.

# 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





# Trichromacy



**Original Color**  
0046E4

**Protanomaly**  
0050C5

**Deuteranomaly**  
0053B4

**Tritanomaly**  
005895

# Monochromacy



**Original Color**  
0046E4

**Achromatopsia**  
434343

**Achromatomaly**  
2B447E

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 0046E4 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 #0046E4 looks like.

```
.text, #text, p{  
    color:#0046E4  
}
```

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 #0046E4 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #0046E4
}
```

## Border

The CSS property to change the border of an element to Hex 0046E4 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
#0046E4 }
```

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

```
.border{ border-color:#0046E4 }
```

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

Here you see how a box with a 4 pixel #0046E4 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #0046E4; -webkit-box-shadow:4px 4px  
4px 4px #0046E4; box-shadow:4px 4px 4px  
4px #0046E4 }
```

# Background

The CSS property to change the background color of an element to Hex 0046E4 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#0046E4 }
```

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

```
.background{ background-color:#0046E4 }
```

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