

# Converting Colors

Hex(2337AA)

Have a look what the booklet for  
Hex(2337AA) contains.

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# Color

Hex(2337AA)

# Conversions

## Conversions Part 1

Format	Color
Hex	2337AA
RGB	35, 55, 170
RGB Percent	14%, 22%, 67%
CMY	0.8627, 0.7843, 0.3333
CMYK	0.79, 0.68, 0.00, 0.33
HSL	231°, 66%, 40%
HSV	231°, 79%, 67%
XYZ	9.3150, 5.9920, 38.6958
YIQ	62.1300, -48.8350, 31.5250

# Conversions

## Conversions Part 2

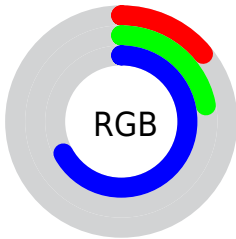
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	35, 52, 170
Decimal	2308010
CIE Lab	29.39, 34.87, -63.40
CIE LCh	29, 72.359, 298.809
Yxy	5.9920, 0.1725, 0.1110
Android (android.graphics.Color)	4280498090 (0xFF2337AA)
YUV	62.1300, 53.1799, -23.7930
Hunter-Lab	24.4785, 25.0887, -76.5911

# Details

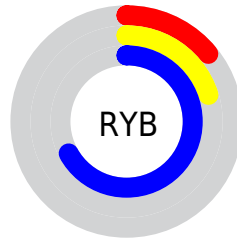
The Hex color **2337AA** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **AA9623**, and the grayscale version is **3E3E3E**.

A 20% lighter version of the original color is **6766E2**, and **000E75** is the 20% darker color. If you saturate the color by 10%, you get **1229AA**, and if you desaturate by 10%, it is **3445AA**.

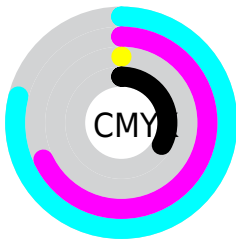
# Distribution



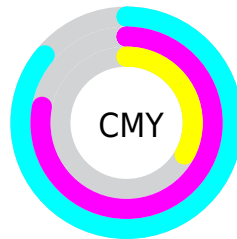
- Red (14%)
- Green (22%)
- Blue (67%)



- Red (14%)
- Yellow (20%)
- Blue (67%)



- Cyan (79%)
- Magenta (68%)
- Yellow (0%)
- Black (33%)



- Cyan (86%)
- Magenta (78%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 2337AA 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 2337AA by changing the saturation by 10% instead.



■ 2337AA

■ 2337AA

FFFFFF

■ 00228F

■ 6766E2

■ 000E75

■ 857FFF

■ 00005B

■ A399FF

■ 000742

■ C0B4FF

■ 00032B

■ DED0FF

■ 000116

■ FCECFE

■ 000000

■ 2337AA

■ 2337AA

■ 1229AA

■ 3445AA

011AAA

4554AA

0019AA

5662AA

6771AA

787FAA

898EAA

9A9CAA

ABABAA

BCB9AA

# Harmonies

## Analogous

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



004FB9



2337AA



820081

# Triad

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



2337AA



812600



005A41

# Complementary

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



2337AA



AA9623

# 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.



005700



2337AA



584300

# Square

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



2337AA



9C0014



1A5100



005B7B

# Rectangle

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



2337AA



9A005D



1A5100



00592D



# Sweetspot

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



2337AA



A9B0DE



23AA96



505470



F0F0F0



707070



# Same Dimension

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



2337AA



0B2ADE



5223AA



4C4D54



001694



000314



# Inverse Universe

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



AA2337



DE0B2A



7BAA23



544C4D



940016

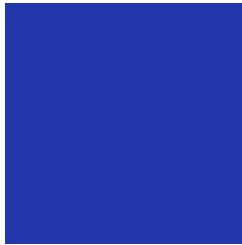


140003



# Previews

## White Background



This preview shows how the Hex color 2337AA looks on a white background.

## Color Contrast Check

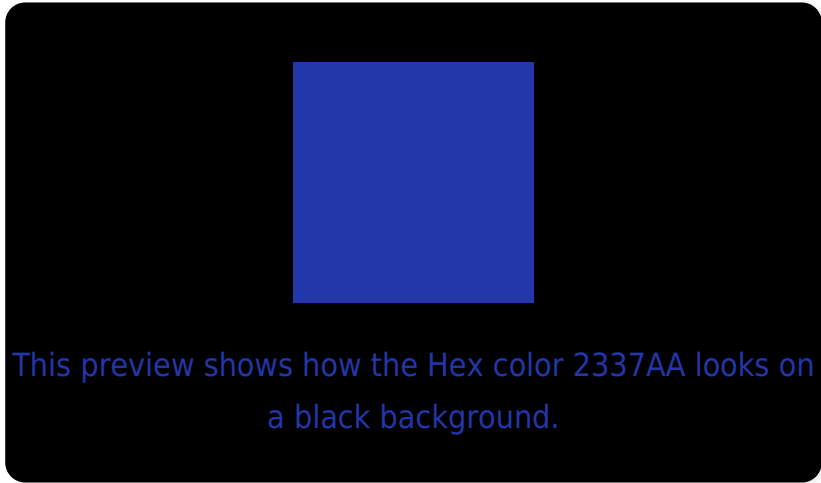
Large Text (above 18pt) WCAG AA ✓ Pass

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

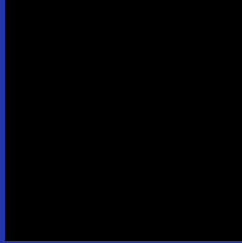
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 2337AA Background



This preview shows how black text looks on a background with the Hex color 2337AA.



This preview shows how white text looks on a background with the Hex color 2337AA.

# 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**  
2337AA

**Protanomaly**  
0D3F98

**Deuteranomaly**  
0D418A

**Tritanomaly**  
0D4571

# Monochromacy



**Original Color**  
2337AA

**Achromatopsia**  
3E3E3E

**Achromatomaly**  
343B65

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 2337AA 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 #2337AA looks like.

```
.text, #text, p{  
    color:#2337AA  
}
```

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 #2337AA colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #2337AA
}
```

## Border

The CSS property to change the border of an element to Hex 2337AA 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
#2337AA }
```

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

```
.border{ border-color:#2337AA }
```

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

Here you see how a box with a 4 pixel #2337AA colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #2337AA; -webkit-box-shadow:4px 4px  
4px 4px #2337AA; box-shadow:4px 4px 4px  
4px #2337AA }
```

# Background

The CSS property to change the background color of an element to Hex 2337AA is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#2337AA }
```

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

```
.background{ background-color:#2337AA }
```

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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