

# Converting Colors

Hex(163731)

Have a look what the booklet for  
Hex(163731) contains.

<b>Hex(163731)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	23
<i><b>Color Blindness Simulation</b></i> .....	26
<i><b>CSS Examples</b></i> .....	29

# Color

**Hex(163731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	163731
RGB	22, 55, 49
RGB Percent	9%, 22%, 19%
CMY	0.9137, 0.7843, 0.8078
CMYK	0.60, 0.00, 0.11, 0.78
HSL	169°, 43%, 15%
HSV	169°, 60%, 22%
XYZ	2.2514, 3.1247, 3.3902
YIQ	44.4490, -17.7420, -8.8620

# Conversions

## Conversions Part 2

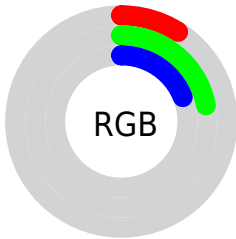
Format	Color
<b>R<sub>YB</sub></b>	22, 40, 55
Decimal	1455921
CIE Lab	20.54, -13.89, 0.07
CIE LCh	21, 13.889, 179.692
Yxy	3.1247, 0.2568, 0.3564
Android (android.graphics.Color)	4279646001 (0xFF163731)
YUV	44.4490, 2.2436, -19.6878
Hunter-Lab	17.6768, -8.1994, 1.0027

# Details

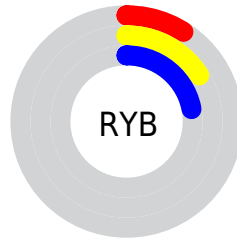
The Hex color **163731** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **37161C**, and the grayscale version is **2C2C2C**.

A 20% lighter version of the original color is **44665F**, and **000402** is the 20% darker color. If you saturate the color by 10%, you get **113730**, and if you desaturate by 10%, it is **1C3732**.

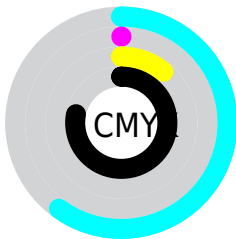
# Distribution



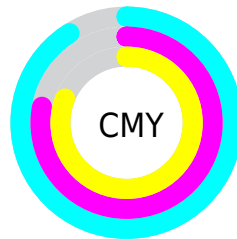
- Red (9%)
- Green (22%)
- Blue (19%)



- Red (9%)
- Yellow (16%)
- Blue (22%)



- Cyan (60%)
- Magenta (0%)
- Yellow (11%)
- Black (78%)



- Cyan (91%)
- Magenta (78%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 163731 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 163731 by changing the saturation by 10% instead.



■ 163731

■ 163731

FFFFFF

■ 00211C

■ 44665F

■ 000402

■ 5D7F78

■ 000000

■ 769991

■ 90B4AC

■ ABD0C7

■ C6ECE3

■ E2FFFF

■ 163731

■ 163731

■ 113730

■ 1C3732

■ 0B372F

■ 213733

■ 05372E

■ 273734

■ 00372D

■ 2C3735

■ 323736

■ 373737

■ 3D3738

■ 423739

■ 48373A

# Harmonies

## Analogous

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



223627



163731



0F373B

# Triad

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



163731



332F43



412D20

# Complementary

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



163731



37161C

# 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.



452B28



163731



3E2C3C

# Square

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



163731



243246



452A32



39311D

# Rectangle

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



163731



113641



452A32



432C22



# Sweetspot

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



163731



3B4745



1C3716



1C2422



A3A3A3



242424



# Same Dimension

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



163731



14473E



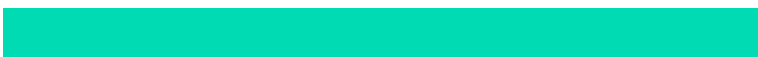
162D37



191C1C



005C4B



00DBB3



# Inverse Universe

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



37161C



47141D



372016



1C191A



5C0011



DB0028



# Previews

## White Background



This preview shows how the Hex color 163731 looks on a white background.

## Color Contrast Check

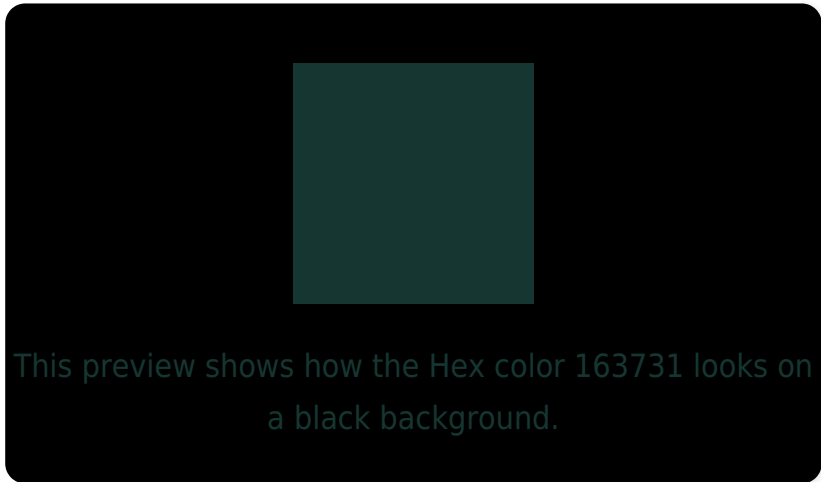
Large Text (above 18pt) WCAG AA ✓ Pass

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

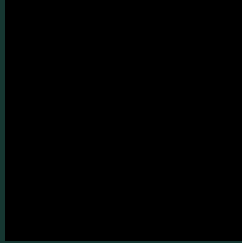
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## Hex 163731 Background



This preview shows how black text looks on a background with the Hex color 163731.



This preview shows how white text looks on a background with the Hex color 163731.

# 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](#).

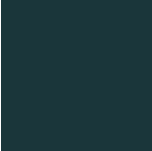
## Dichromacy



**Original Color**  
163731

**Protanopia**  
33312E

**Deuteranopia**  
363033



**Tritanopia**  
1A363A

# Trichromacy



**Original Color**  
163731

**Protanomaly**  
28332F

**Deuteranomaly**  
2A3332

**Tritanomaly**  
193637

# Monochromacy



**Original Color**  
163731

**Achromatopsia**  
2C2C2C

**Achromatomaly**  
24302E

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 163731 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 #163731 looks like.

```
.text, #text, p{  
    color:#163731  
}
```

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 #163731 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #163731
}
```

## Border

The CSS property to change the border of an element to Hex 163731 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
#163731 }
```

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

```
.border{ border-color:#163731 }
```

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

Here you see how a box with a 4 pixel #163731 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #163731; -webkit-box-shadow:4px 4px  
4px 4px #163731; box-shadow:4px 4px 4px  
4px #163731 }
```

# Background

The CSS property to change the background color of an element to Hex 163731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#163731 }
```

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

```
.background{ background-color:#163731 }
```

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