

# Converting Colors

XYZ(37.8408, 18.1768, 61.9006)

Have a look what the booklet for  
XYZ(37.8408, 18.1768, 61.9006)  
contains.

<b>XYZ(37.8031, 18.1588, 61.8341)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(37.8031, 18.1588,  
61.8341)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D100D1
RGB	209, 0, 209
RGB Percent	82%, 0%, 82%
CMY	0.1804, 0.9999, 0.1804
CMYK	0.00, 1.00, 0.00, 0.18
HSL	300°, 100%, 41%
HSV	300°, 100%, 82%
XYZ	37.8031, 18.1588, 61.8341
YIQ	86.3170, 57.4750, 109.3070

# Conversions

## Conversions Part 2

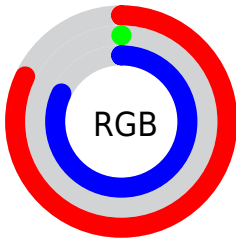
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	209, 0, 209
Decimal	13697233
CIE <sub>Lab</sub>	49.69, 84.57, -52.37
CIE <sub>LCh</sub>	50, 99.468, 328.233
Yxy	18.1588, 0.3209, 0.1542
Android (android.graphics.Color)	4291887313 (0xFFD100D1)
YUV	86.3170, 60.4827, 107.5930
Hunter-Lab	42.6131, 83.7785, -56.2040

# Details

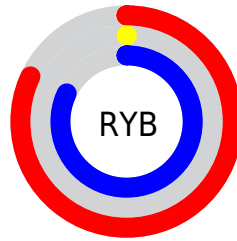
The XYZ color **37.8031, 18.1588, 61.8341** is a dark color, and the websafe version is hex **CC00CC**. The color can be described as middle washed magenta. A complement of this color would be **22.8013, 45.6018, 7.6012**, and the grayscale version is **8.7837, 9.2411, 10.0636**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.2272, 8.7227, 31.2948** is the 20% darker color. If you saturate the color by 10%, you get **37.8035, 18.1590, 61.8343**, and if you desaturate by 10%, it is **38.0704, 18.6928, 61.9234**.

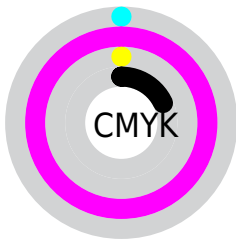
# Distribution



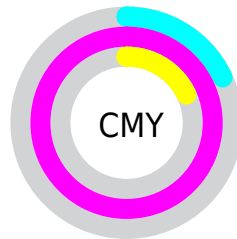
- Red (82%)
- Green (0%)
- Blue (82%)



- Red (82%)
- Yellow (0%)
- Blue (82%)



- Cyan (0%)
- Magenta (100%)
- Yellow (0%)
- Black (18%)




- Cyan (18%)
- Magenta (100%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8031, 18.1588, 61.8341 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 XYZ color 37.8031, 18.1588, 61.8341 by changing the saturation by 10% instead.





 37.8031, 18.1588,  
61.8341


 37.8031, 18.1588,  
61.8341


328.0700,  
241.7646, 449.3166


 26.0064, 11.0641,  
44.4637


 71.1121, 40.3077,  
109.0550

 16.9612, 6.1099,  
30.6954


 93.3551, 56.1307,  
139.7426

 10.3019, 2.9120,  
20.1105


 119.8110, 75.6319,  
175.7064

 5.6634, 1.0860,  
12.2905

 150.8450, 99.1957,  
217.3649

 2.6802, 0.0000,  
6.8169

 186.8226,  
127.2064, 265.1366

 0.9870, 0.0000,  
3.2712

 228.1090,

 0.0000, 0.0000,

160.0486, 319.4401

1.2347

275.0697,  
198.1065, 380.6939

■ 0.0000, 0.0000,  
0.0074

■ 0.0000, 0.0000,  
0.0000

■ 37.8031, 18.1588,  
61.8341

■ 37.8031, 18.1588,  
61.8341

■ 37.8035, 18.1590,  
61.8343

■ 38.0704, 18.6928,  
61.9234

■ 38.6256, 19.8030,  
62.1085

■ 39.5663, 21.6844,  
62.4221

■ 40.9454, 24.4427,  
62.8819

■ 42.8077, 28.1672,  
63.5027

■ 45.1921, 32.9360,  
64.2976

■ 48.1338, 38.8195,  
65.2782

■ 51.6650, 45.8818,  
66.4553

■ 55.8153, 54.1823,  
67.8388

# Harmonies

## Analogous

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



27.3733, 18.1588, 110.3429



37.8031, 18.1588, 61.8341



42.5719, 18.1588, 21.4225

# Triad

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



37.8031, 18.1588, 61.8341



17.8265, 18.1588, 0.0000



5.6819, 18.1588, 56.0714

# Complementary

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



37.8031, 18.1588, 61.8341



22.8013, 45.6018, 7.6012

# 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.



4.7150, 18.1588, 18.2082



37.8031, 18.1588, 61.8341



10.0054, 18.1588, 0.0000

# Square

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



37.8031, 18.1588, 61.8341



28.7163, 18.1588, 0.0771



5.9536, 18.1588, 3.0724



9.3449, 18.1588, 105.3643



# Rectangle

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



37.8031, 18.1588, 61.8341



40.9418, 18.1588, 7.5413



5.9536, 18.1588, 3.0724



5.1062, 18.1588, 40.9598

# Sweetspot

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



37.8039, 18.1596, 61.8345



75.3100, 60.5201, 102.3197



11.5095, 4.6044, 60.6045



15.6777, 12.0703, 21.7534



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



37.8039, 18.1596, 61.8345



59.2898, 28.4799, 96.9790



28.8202, 14.5662, 14.5273



12.3109, 12.0091, 14.9128



23.3082, 11.1961, 38.1247



1.3032, 0.6260, 2.1317



# Inverse Universe

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



37.8039, 18.1596, 61.8345



59.2898, 28.4799, 96.9790



25.3262, 46.6117, 20.8968



12.3109, 12.0091, 14.9128



23.3082, 11.1961, 38.1247



1.3032, 0.6260, 2.1317



# Previews

## White Background



This preview shows how the XYZ color 37.8031, 18.1588, 61.8341 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

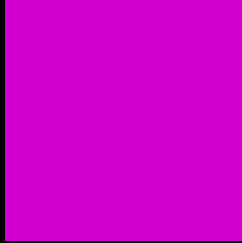
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.8031, 18.1588, 61.8341 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

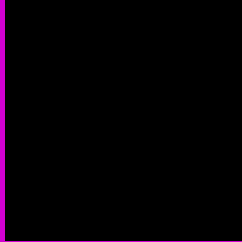
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 37.8031, 18.1588, 61.8341

## Background



This preview shows how black text looks on a background with the XYZ color 37.8031, 18.1588, 61.8341.



This preview shows how white text looks on a background with the XYZ color 37.8031, 18.1588,



# 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

37.8031, 18.1588, 61.8341

### Protanopia

22.7268, 19.0834, 88.8718

### Deuteranopia

19.3528, 18.7962, 54.8326



## Tritanopia

27.5025, 18.4585, 11.1301

# Trichromacy



## Original Color

37.8031, 18.1588, 61.8341



## Protanomaly

19.9948, 12.2603, 77.6566



## Deuteranomaly

21.1531, 13.5235, 56.7537



## Tritanomaly

29.4121, 16.5122, 23.1097

# Monochromacy



## Original Color

37.8031, 18.1588, 61.8341



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

14.8230, 9.1964, 22.4665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8031, 18.1588, 61.8341 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 `rgb(209, 0, 209)` looks like.

```
.text, #text, p{  
    color:rgb(209, 0, 209)  
}
```

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 rgb(209, 0, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 0, 209) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8031, 18.1588, 61.8341 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 rgb(209, 0, 209) }
```



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

```
.border{ border-color:rgb(209, 0, 209) }
```

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

Here you see how a box with a 4 pixel rgb(209, 0, 209) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 0, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 0, 209);  
box-shadow:4px 4px 4px 4px rgb(209, 0,  
209) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8031, 18.1588, 61.8341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 0, 209) }
```

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

```
.background{ background-color: rgb(209, 0,  
209) }
```

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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