

# Converting Colors

XYZ(37.6805, 18.1130, 61.0406)

Have a look what the booklet for  
XYZ(37.6805, 18.1130, 61.0406)  
contains.

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# Color

**XYZ(37.6797, 18.1094,  
61.1840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D100D0
RGB	209, 0, 208
RGB Percent	82%, 0%, 82%
CMY	0.1804, 0.9999, 0.1843
CMYK	0.00, 1.00, 0.00, 0.18
HSL	300°, 100%, 41%
HSV	300°, 100%, 82%
XYZ	37.6797, 18.1094, 61.1840
YIQ	86.2030, 57.7960, 108.9960

# Conversions

## Conversions Part 2

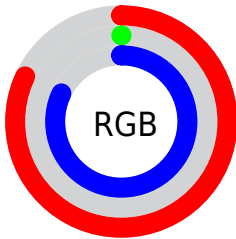
<b>Format</b>	<b>Color</b>
<b>RYB</b>	209, 0, 208
Decimal	13697232
CIELab	49.63, 84.42, -51.89
CIELCh	50, 99.094, 328.425
Yxy	18.1094, 0.3221, 0.1548
Android (android.graphics.Color)	4291887312 (0xFFD100D0)
YUV	86.2030, 60.0459, 107.6930
Hunter-Lab	42.5551, 83.5782, -55.4561

# Details

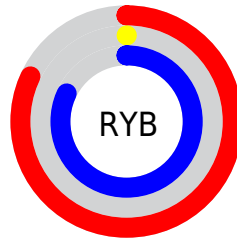
The XYZ color **37.6797, 18.1094, 61.1840** is a dark color, and the websafe version is hex **CC00CC**. The color can be described as middle washed magenta. A complement of this color would be **22.8068, 45.6041, 7.6300**, and the grayscale version is **8.7601, 9.2163, 10.0366**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.1442, 8.6895, 30.8579** is the 20% darker color. If you saturate the color by 10%, you get **37.6801, 18.1096, 61.1842**, and if you desaturate by 10%, it is **37.9593, 18.6483, 61.3381**.

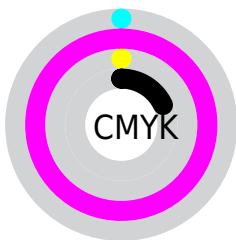
# Distribution



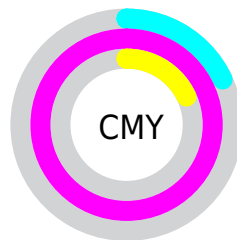
- Red (82%)
- Green (0%)
- Blue (82%)



- 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 37.6797, 18.1094, 61.1840 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 37.6797, 18.1094, 61.1840 by changing the saturation by 10% instead.





 37.6797, 18.1094,  
61.1840


 37.6797, 18.1094,  
61.1840


327.5486,  
241.4870, 446.8736

 25.9103, 11.0286,  
43.9422


 70.9240, 40.2237,  
108.1054


 16.8889, 6.0860,  
30.2882


 93.1296, 56.0259,  
138.6221


 10.2501, 2.8975,  
19.8035


 119.5446, 75.5040,  
174.4008

 5.6286, 1.0784,  
12.0696

 150.5344, 99.0424,  
215.8601

 2.6591, 0.0000,  
6.6680

 186.4644,  
127.0255, 263.4184

 0.9762, 0.0000,  
3.1801

 227.6998,

 0.0000, 0.0000,

159.8377, 317.4944

1.1873

274.6061,  
197.8634, 378.5066

■ 0.0000, 0.0000,  
0.0000

■ 37.6797, 18.1094,  
61.1840

■ 37.6797, 18.1094,  
61.1840

■ 37.6801, 18.1096,  
61.1842

■ 37.9593, 18.6483,  
61.3381

■ 38.5267, 19.7633,  
61.5881

■ 39.4797, 21.6496,  
61.9666

■ 40.8712, 24.4127,  
62.4914

■ 42.7457, 28.1420,  
63.1772

■ 45.1424, 32.9156,  
64.0371

■ 48.0965, 38.8039,  
65.0828

■ 51.6399, 45.8711,  
66.3250

■ 55.8025, 54.1764,  
67.7737

# Harmonies

## Analogous

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



27.3381, 18.1094, 109.3736



37.6797, 18.1094, 61.1840



42.3649, 18.1094, 21.1768

# Triad

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



37.6797, 18.1094, 61.1840



17.7145, 18.1094, 0.0000



5.7020, 18.1094, 56.0847

# Complementary

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



37.6797, 18.1094, 61.1840



22.8068, 45.6041, 7.6300

# 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.



4.7233, 18.1094, 18.3279



37.6797, 18.1094, 61.1840



9.9581, 18.1094, 0.0000

# Square

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



37.6797, 18.1094, 61.1840



28.5275, 18.1094, 0.0799



5.9434, 18.1094, 3.1298



9.3720, 18.1094, 104.9712



# Rectangle

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



37.6797, 18.1094, 61.1840



40.7091, 18.1094, 7.4587



5.9434, 18.1094, 3.1298



5.1227, 18.1094, 41.0412

# Sweetspot

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



37.6804, 18.1102, 61.1844



75.2511, 60.4965, 102.0095



11.5095, 4.6043, 60.6047



15.6633, 12.0646, 21.6777



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.



37.6804, 18.1102, 61.1844



59.0939, 28.4016, 95.9473



28.8202, 14.5661, 14.5269



12.3083, 12.0081, 14.8993



23.2332, 11.1661, 37.7297



1.2999, 0.6247, 2.1139



# Inverse Universe

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



37.6804, 18.1102, 61.1844



59.0939, 28.4016, 95.9473



25.3262, 46.6118, 20.8965



12.3083, 12.0081, 14.8993



23.2332, 11.1661, 37.7297



1.2999, 0.6247, 2.1139



# Previews

## White Background



This preview shows how the XYZ color 37.6797, 18.1094, 61.1840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

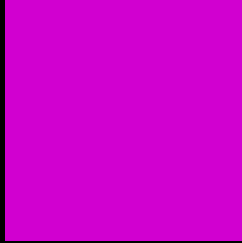
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6797, 18.1094, 61.1840 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

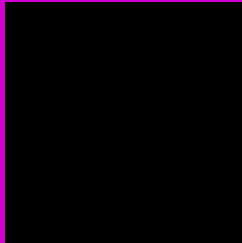
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.6797, 18.1094, 61.1840**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6797, 18.1094, 61.1840.



This preview shows how white text looks on a background with the XYZ color 37.6797, 18.1094,



# 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

37.6797, 18.1094, 61.1840

### Protanopia

22.5745, 19.0224, 88.0698

### Deuteranopia

19.3145, 18.7895, 54.2385



## Tritanopia

27.5025, 18.4585, 11.1301

# Trichromacy



## Original Color

37.6797, 18.1094, 61.1840



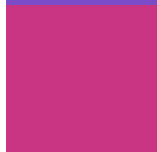
## Protanomaly

19.8531, 12.2036, 76.9105



## Deuteranomaly

21.0358, 13.4766, 56.1361



## Tritanomaly

29.4121, 16.5122, 23.1097

# Monochromacy



## Original Color

37.6797, 18.1094, 61.1840



## Achromatopsia

8.8453, 9.3059, 10.1341



## Achromatomaly

14.7555, 9.1694, 22.1113

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6797, 18.1094, 61.1840 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, 208)` looks like.

```
.text, #text, p{  
    color:rgb(209, 0, 208)  
}
```

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, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 0, 208) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6797, 18.1094, 61.1840 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, 208) }
```



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

```
.border{ border-color:rgb(209, 0, 208) }
```

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, 208) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 0, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 0, 208);  
box-shadow:4px 4px 4px 4px rgb(209, 0,  
208) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6797, 18.1094, 61.1840 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, 208) }
```

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

```
.background{ background-color: rgb(209, 0,  
208) }
```

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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