

Converting Colors

XYZ(12.2519, 15.3041, 36.8057)

Have a look what the booklet for
XYZ(12.2519, 15.3041, 36.8057)
contains.

XYZ(13.2077, 15.8380, 37.0113)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.2077, 15.8380,
37.0113)**

Conversions

Conversions Part 1

Format	Color
Hex	0077A3
RGB	0, 119, 163
RGB Percent	0%, 47%, 64%
CMY	0.9999, 0.5333, 0.3608
CMYK	1.00, 0.27, 0.00, 0.36
HSL	196°, 100%, 32%
HSV	196°, 100%, 64%
XYZ	13.2077, 15.8380, 37.0113
YIQ	88.4350, -85.0480, -11.5440

Conversions

Conversions Part 2

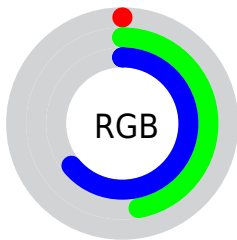
Format	Color
RYB	0, 69, 163
Decimal	30627
CIELab	46.76, -11.54, -31.37
CIELCh	47, 33.427, 249.799
Yxy	15.8380, 0.1999, 0.2398
Android (android.graphics.Color)	4278220707 (0xFF0077A3)
YUV	88.4350, 36.7605, -77.5575
Hunter-Lab	39.7970, -10.4047, -27.2820

Details

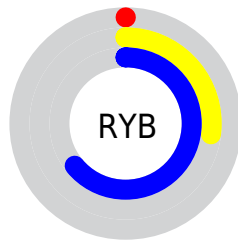
The XYZ color **13.2077, 15.8380, 37.0113** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.0063, 9.5901, 1.0083**, and the grayscale version is **9.3083, 9.7931, 10.6647**.

A 20% lighter version of the original color is **31.2423, 36.2625, 71.6824**, and **5.1225, 5.6542, 15.8603** is the 20% darker color. If you saturate the color by 10%, you get **13.2070, 15.8365, 37.0114**, and if you desaturate by 10%, it is **13.9632, 17.0233, 37.2006**.

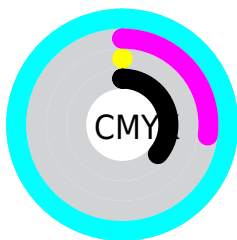
Distribution



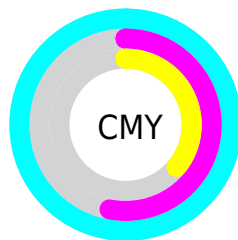
- Red (0%)
- Green (47%)
- Blue (64%)



- Red (0%)
- Yellow (27%)
- Blue (64%)



- Cyan (100%)
- Magenta (27%)
- Yellow (0%)
- Black (36%)



- Cyan (100%)
- Magenta (53%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.2077, 15.8380, 37.0113 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 13.2077, 15.8380, 37.0113 by changing the saturation by 10% instead.

■ 13.2077, 15.8380,
37.0113

■ 13.2077, 15.8380,
37.0113

205.8553,
228.3839, 348.5296

■ 7.6497, 9.4096,
24.9204

■ 31.2746, 36.3167,
71.7767

■ 3.9215, 5.0093,
15.7993

■ 44.5142, 51.1359,
95.2882

■ 1.6578, 2.2527,
9.2294

■ 61.0450, 69.5207,
123.4437

■ 0.4297, 0.7485,
4.7923

■ 81.2324, 91.8556,
156.6618

■ 0.0000, 0.0000,
2.0693

■ 105.4418,
118.5249, 195.3608

■ 0.0000, 0.0000,
0.5974

■ 134.0386,

■ 0.0000, 0.0000,

149.9132, 239.9594

0.0000

167.3879,
186.4047, 290.8762

■ 13.2077, 15.8380,
37.0113

■ 13.2077, 15.8380,
37.0113

■ 13.2070, 15.8365,
37.0114

■ 13.9632, 17.0233,
37.2006

■ 14.9198, 18.3486,
37.4060

■ 16.1530, 19.8533,
37.6314

■ 17.6956, 21.5550,
37.8786

■ 19.5754, 23.4684,
38.1488

■ 21.8170, 25.6065,
38.4434

■ 24.4426, 27.9814,
38.7634

■ 27.4726, 30.6038,
39.1099

■ 30.9258, 33.4840,
39.4838

Harmonies

Analogous

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



11.1605, 15.8380, 29.6305



13.2077, 15.8380, 37.0113



16.0234, 15.8380, 38.2730

Triad

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



13.2077, 15.8380, 37.0113



21.2490, 15.8380, 14.6654



11.7567, 15.8380, 7.6501

Complementary

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



13.2077, 15.8380, 37.0113



16.0063, 9.5901, 1.0083

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.



14.1236, 15.8380, 5.8042



13.2077, 15.8380, 37.0113



19.7606, 15.8380, 8.9047

Square

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



13.2077, 15.8380, 37.0113



20.9212, 15.8380, 23.3729



17.0638, 15.8380, 6.1746



10.4004, 15.8380, 12.2941

Rectangle

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



13.2077, 15.8380, 37.0113



18.0005, 15.8380, 35.1626



17.0638, 15.8380, 6.1746



12.4472, 15.8380, 6.7622

Sweetspot

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



13.2083, 15.8385, 37.0117



43.4853, 49.8561, 69.3874



13.5427, 26.3729, 6.7094



9.3273, 10.8046, 15.5314



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



13.2083, 15.8385, 37.0117



23.4793, 28.0152, 66.2261



7.3062, 4.0343, 35.0443



7.1136, 7.6862, 9.0117



10.3031, 12.3855, 28.7774



0.2523, 0.3318, 0.6166

Inverse Universe

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



18.4346, 9.1192, 18.2418



32.9258, 16.2952, 32.2043



22.4349, 22.4473, 3.1511



7.2823, 7.1694, 8.4731



14.3460, 7.0944, 14.2784



0.3195, 0.1563, 0.3951

Previews

White Background



This preview shows how the XYZ color 13.2077, 15.8380, 37.0113 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 13.2077, 15.8380, 37.0113 looks on a 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](#).

XYZ 13.2077, 15.8380, 37.0113

Background



This preview shows how black text looks on a background with the XYZ color 13.2077, 15.8380, 37.0113.

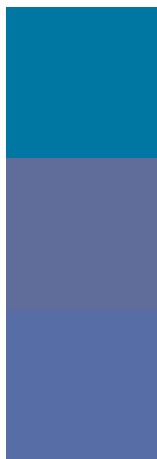


This preview shows how white text looks on a background with the XYZ color 13.2077, 15.8380,

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

13.2077, 15.8380, 37.0113

Protanopia

16.2089, 15.7906, 33.2039

Deuteranopia

16.2052, 15.8469, 37.8020



Tritanopia

11.2478, 15.8319, 24.2928

Trichromacy



Original Color

13.2077, 15.8380, 37.0113

Protanomaly

14.0012, 15.2710, 34.5574

Deuteranomaly

14.1815, 15.3028, 37.3283

Tritanomaly

11.9175, 15.9022, 28.4279

Monochromacy



Original Color

13.2077, 15.8380, 37.0113

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

9.1872, 11.0022, 17.8591

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2077, 15.8380, 37.0113 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(0, 119, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 163)  
}
```

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(0, 119, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 163) }
```

Border

The CSS property to change the border of an element to XYZ 13.2077, 15.8380, 37.0113 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(0, 119, 163) }
```


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

```
.border{ border-color:rgb(0, 119, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 119, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2077, 15.8380, 37.0113 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 163) }
```

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

```
.background{ background-color: rgb(0, 119,  
163) }
```

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