

Converting Colors

XYZ(12.2077, 13.8093, 36.7664)

Have a look what the booklet for
XYZ(12.2077, 13.8093, 36.7664)
contains.

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Color

**XYZ(12.1868, 13.7962,
36.6710)**

Conversions

Conversions Part 1

Format	Color
Hex	006EA3
RGB	0, 110, 163
RGB Percent	0%, 43%, 64%
CMY	0.9999, 0.5686, 0.3608
CMYK	1.00, 0.33, 0.00, 0.36
HSL	200°, 100%, 32%
HSV	200°, 100%, 64%
XYZ	12.1868, 13.7962, 36.6710
YIQ	83.1520, -82.5730, -6.8370

Conversions

Conversions Part 2

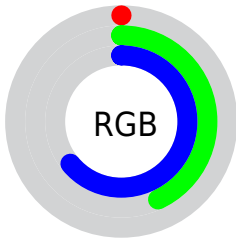
Format	Color
RYB	0, 66, 163
Decimal	28323
CIELab	43.94, -6.23, -35.81
CIELCh	44, 36.345, 260.128
Yxy	13.7962, 0.1945, 0.2202
Android (android.graphics.Color)	4278218403 (0xFF006EA3)
YUV	83.1520, 39.3651, -72.9243
Hunter-Lab	37.1432, -6.4343, -32.5359

Details

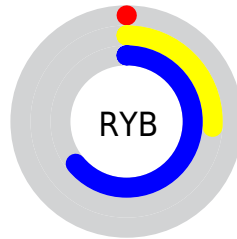
The XYZ color **12.1868, 13.7962, 36.6710** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.3790, 10.3354, 1.1325**, and the grayscale version is **8.1892, 8.6157, 9.3825**.

A 20% lighter version of the original color is **29.3302, 32.5779, 71.0720**, and **4.6467, 4.7027, 15.7017** is the 20% darker color. If you saturate the color by 10%, you get **12.1860, 13.7945, 36.6710**, and if you desaturate by 10%, it is **12.9955, 15.0879, 36.8780**.

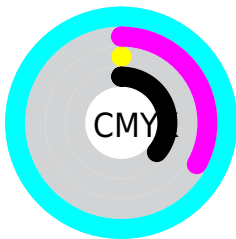
Distribution



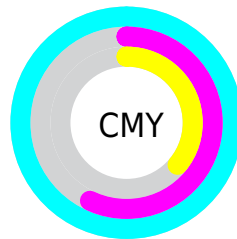
- Red (0%)
- Green (43%)
- Blue (64%)



- Red (0%)
- Yellow (26%)
- Blue (64%)



- Cyan (100%)
- Magenta (33%)
- Yellow (0%)
- Black (36%)



- Cyan (100%)
- Magenta (57%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1868, 13.7962, 36.6710 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 12.1868, 13.7962, 36.6710 by changing the saturation by 10% instead.

■ 12.1868, 13.7962,
36.6710

■ 12.1868, 13.7962,
36.6710

■ 199.3828,
215.9593, 347.0096

■ 6.9441, 7.9791,
24.6591

■ 29.4488, 32.7270,
71.2472

■ 3.4732, 4.0815,
15.6065

■ 42.1988, 46.6094,
94.6485

■ 1.4087, 1.7193,
9.0948

■ 58.1820, 63.9490,
122.6833

■ 0.2624, 0.4361,
4.7054

■ 77.7637, 85.1303,
155.7703

■ 0.0000, 0.0000,
2.0198

■ 101.3093,
110.5375, 194.3278

■ 0.0000, 0.0000,
0.5674

■ 129.1841,

■ 0.0000, 0.0000,

140.5552, 238.7745

0.0000

161.7535,
175.5676, 289.5290

■ 12.1868, 13.7962,
36.6710

■ 12.1868, 13.7962,
36.6710

■ 12.1860, 13.7945,
36.6710

■ 12.9955, 15.0879,
36.8780

■ 14.0155, 16.5400,
37.1045

■ 15.3227, 18.1927,
37.3546

■ 16.9499, 20.0636,
37.6300

■ 18.9253, 22.1682,
37.9321

■ 21.2737, 24.5200,
38.2623

■ 24.0176, 27.1313,
38.6217

■ 27.1774, 30.0134,
39.0114

■ 30.7723, 33.1770,
39.4326

Harmonies

Analogous

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



9.8755, 13.7962, 30.7641



12.1868, 13.7962, 36.6710



15.1109, 13.7962, 35.3575

Triad

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



12.1868, 13.7962, 36.6710



19.0254, 13.7962, 10.2012



9.3077, 13.7962, 6.9800

Complementary

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



12.1868, 13.7962, 36.6710



16.3790, 10.3354, 1.1325

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.



11.2992, 13.7962, 4.5137



12.1868, 13.7962, 36.6710



16.9901, 13.7962, 5.8457

Square

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



12.1868, 13.7962, 36.6710



19.3555, 13.7962, 17.9061



14.0847, 13.7962, 4.1927



8.3815, 13.7962, 12.4650

Rectangle

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



12.1868, 13.7962, 36.6710



17.0127, 13.7962, 30.6906



14.0847, 13.7962, 4.1927



9.8598, 13.7962, 5.8701

Sweetspot

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



12.1873, 13.7966, 36.6714



42.7114, 48.3082, 69.1294



13.7094, 26.4395, 7.5868



9.1339, 10.4178, 15.4670



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.



12.1873, 13.7966, 36.6714



21.6350, 24.3267, 65.6114



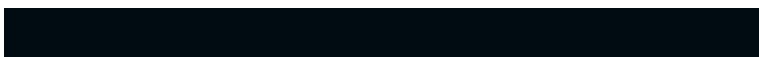
7.0732, 3.5684, 34.9666



7.0810, 7.6211, 9.0009



9.5132, 10.8057, 28.5141



0.2400, 0.3072, 0.6125

Inverse Universe

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



17.9192, 8.9130, 15.5281



31.9949, 15.9228, 27.3023



23.5089, 24.5953, 3.5091



7.2659, 7.1628, 8.3865



13.9473, 6.9350, 12.1789



0.3133, 0.1538, 0.3624

Previews

White Background



This preview shows how the XYZ color 12.1868, 13.7962, 36.6710 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 12.1868, 13.7962, 36.6710 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

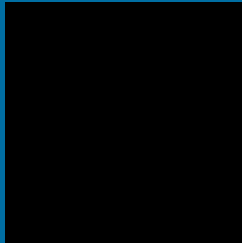
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.1868, 13.7962, 36.6710

Background



This preview shows how black text looks on a background with the XYZ color 12.1868, 13.7962, 36.6710.



This preview shows how white text looks on a background with the XYZ color 12.1868, 13.7962,

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

12.1868, 13.7962, 36.6710

Protanopia

14.4984, 13.8343, 33.3586

Deuteranopia

14.2676, 13.9193, 37.5320



Tritanopia

9.7688, 13.7167, 21.2015

Trichromacy



Original Color

12.1868, 13.7962, 36.6710

Protanomaly

12.8309, 13.3906, 34.7093

Deuteranomaly

12.9371, 13.5463, 37.0548

Tritanomaly

10.4926, 13.6452, 26.1255

Monochromacy



Original Color

12.1868, 13.7962, 36.6710

Achromatopsia

8.2219, 8.6500, 9.4199

Achromatomaly

8.3072, 9.7554, 16.7744

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1868, 13.7962, 36.6710 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, 110, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 110, 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, 110, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 110, 163) }
```

Border

The CSS property to change the border of an element to XYZ 12.1868, 13.7962, 36.6710 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, 110, 163) }
```


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

```
.border{ border-color:rgb(0, 110, 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, 110, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 110, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 110, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 110,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1868, 13.7962, 36.6710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 110, 163) }
```

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

```
.background{ background-color: rgb(0, 110,  
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](#).

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