

Converting Colors

XYZ(12.1629, 12.5875, 40.2417)

Have a look what the booklet for
XYZ(12.1629, 12.5875, 40.2417)
contains.

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Color

**XYZ(12.2009, 12.6408,
40.3249)**

Conversions

Conversions Part 1

Format	Color
Hex	0067AB
RGB	0, 103, 171
RGB Percent	0%, 40%, 67%
CMY	0.9999, 0.5961, 0.3294
CMYK	1.00, 0.40, 0.00, 0.33
HSL	204°, 100%, 34%
HSV	204°, 100%, 67%
XYZ	12.2009, 12.6408, 40.3249
YIQ	79.9550, -83.2160, -0.6880

Conversions

Conversions Part 2

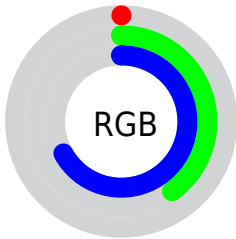
Format	Color
RYB	0, 64, 171
Decimal	26539
CIELab	42.22, 1.29, -43.25
CIELCh	42, 43.272, 271.708
Yxy	12.6408, 0.1872, 0.1940
Android (android.graphics.Color)	4278216619 (0xFF0067AB)
YUV	79.9550, 44.8852, -70.1205
Hunter-Lab	35.5539, -0.9642, -42.3584

Details

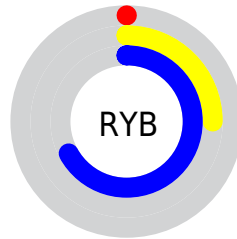
The XYZ color **12.2009, 12.6408, 40.3249** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **18.8635, 12.7954, 1.4763**, and the grayscale version is **7.5451, 7.9380, 8.6445**.

A 20% lighter version of the original color is **29.5406, 30.7811, 77.0574**, and **4.7331, 4.2343, 17.7074** is the 20% darker color. If you saturate the color by 10%, you get **12.2000, 12.6389, 40.3249**, and if you desaturate by 10%, it is **13.1388, 14.1698, 40.5709**.

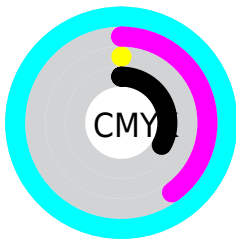
Distribution



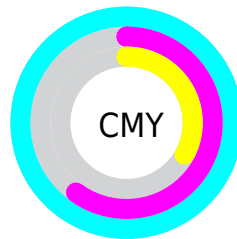
- Red (0%)
- Green (40%)
- Blue (67%)



- Red (0%)
- Yellow (25%)
- Blue (67%)



- Cyan (100%)
- Magenta (40%)
- Yellow (0%)
- Black (33%)



- Cyan (100%)
- Magenta (60%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2009, 12.6408, 40.3249 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 12.2009, 12.6408, 40.3249 by changing the saturation by 10% instead.

■ 12.2009, 12.6408,
40.3249

■ 12.2009, 12.6408,
40.3249

■ 199.4737,
208.6026, 363.0838

■ 6.9538, 7.1817,
27.4762

■ 29.4742, 30.6569,
76.9005

■ 3.4793, 3.5760,
17.6956

■ 42.2311, 43.9827,
101.4645

■ 1.4120, 1.4393,
10.5645

■ 58.2220, 60.6995,
130.7707

■ 0.2648, 0.2454,
5.6644

■ 77.8122, 81.1918,
165.2377

■ 0.0000, 0.0000,
2.5766

■ 101.3671,
105.8438, 205.2840

■ 0.0000, 0.0000,
0.8803

■ 129.2521,

■ 0.0000, 0.0000,

135.0400, 251.3280

0.0000

161.8325,
169.1648, 303.7885

■ 12.2009, 12.6408,
40.3249

■ 12.2009, 12.6408,
40.3249

■ 12.2000, 12.6389,
40.3249

■ 13.1388, 14.1698,
40.5709

■ 14.3331, 15.9145,
40.8447

■ 15.8657, 17.9190,
41.1508

■ 17.7744, 20.2045,
41.4914

■ 20.0916, 22.7894,
41.8682

■ 22.8456, 25.6900,
42.2829

■ 26.0623, 28.9211,
42.7370

■ 29.7652, 32.4966,
43.2320

■ 33.9763, 36.4293,
43.7691

Harmonies

Analogous

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



9.3030, 12.6408, 36.1409



12.2009, 12.6408, 40.3249



15.5865, 12.6408, 35.1405

Triad

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



12.2009, 12.6408, 40.3249



18.1161, 12.6408, 6.3676



7.3307, 12.6408, 6.9332

Complementary

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



12.2009, 12.6408, 40.3249



18.8635, 12.7954, 1.4763

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.



9.0350, 12.6408, 3.4950



12.2009, 12.6408, 40.3249



15.2080, 12.6408, 3.2865

Square

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



12.2009, 12.6408, 40.3249



19.3598, 12.6408, 13.2399



11.8304, 12.6408, 2.5367



6.8113, 12.6408, 14.3011

Rectangle

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



12.2009, 12.6408, 40.3249



17.5830, 12.6408, 28.0034



11.8304, 12.6408, 2.5367



7.7669, 12.6408, 5.4174

Sweetspot

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



12.2014, 12.6412, 40.3252



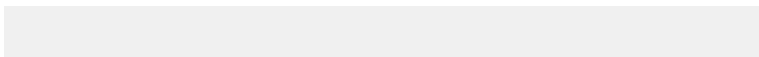
46.3393, 51.4644, 76.4932



15.5340, 29.5144, 9.9656



9.7892, 10.9351, 16.9824



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



12.2014, 12.6412, 40.3252



21.6369, 22.2102, 72.1485



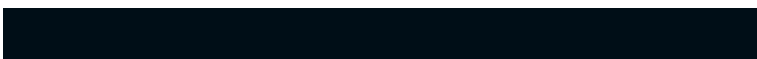
7.6008, 3.4398, 38.7917



7.9650, 8.5293, 10.1792



9.2495, 9.6328, 30.4163



0.3088, 0.3710, 0.8633

Inverse Universe

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



19.2432, 9.6379, 13.6783



34.3546, 17.2165, 23.9266



27.8701, 30.8085, 4.4785



8.2001, 8.0933, 9.3646



14.5323, 7.2755, 10.4487



0.4303, 0.2128, 0.4276

Previews

White Background



This preview shows how the XYZ color 12.2009, 12.6408, 40.3249 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 12.2009, 12.6408, 40.3249 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

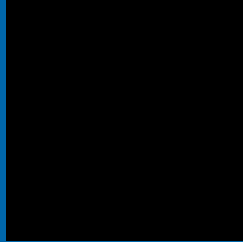
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2009, 12.6408, 40.3249

Background



This preview shows how black text looks on a background with the XYZ color 12.2009, 12.6408, 40.3249.



This preview shows how white text looks on a background with the XYZ color 12.2009, 12.6408,

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

12.2009, 12.6408, 40.3249

Protanopia

13.7562, 12.6422, 37.7915

Deuteranopia

13.1388, 12.8214, 40.8120



Tritanopia

8.9545, 12.6769, 19.1145

Trichromacy



Original Color

12.2009, 12.6408, 40.3249

Protanomaly

12.6119, 12.3087, 38.7569

Deuteranomaly

12.6767, 12.7282, 40.8184

Tritanomaly

9.8779, 12.5313, 25.5651

Monochromacy



Original Color

12.2009, 12.6408, 40.3249

Achromatopsia

7.6249, 8.0220, 8.7359

Achromatomaly

7.8356, 8.8755, 16.9229

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2009, 12.6408, 40.3249 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, 103, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 103, 171)  
}
```

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, 103, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 103, 171) }
```

Border

The CSS property to change the border of an element to XYZ 12.2009, 12.6408, 40.3249 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, 103, 171) }
```


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

```
.border{ border-color:rgb(0, 103, 171) }
```

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

Here you see how a box with a 4 pixel rgb(0, 103, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 103, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 103, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 103,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2009, 12.6408, 40.3249 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 103, 171) }
```

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

```
.background{ background-color: rgb(0, 103,  
171) }
```

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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