

Converting Colors

XYZ(13.7433, 23.7233, 16.1831)

Have a look what the booklet for
XYZ(13.7433, 23.7233, 16.1831)
contains.

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Color

**XYZ(13.7402, 23.7221,
16.1665)**

Conversions

Conversions Part 1

Format	Color
Hex	009965
RGB	0, 153, 101
RGB Percent	0%, 60%, 40%
CMY	1.0000, 0.4000, 0.6039
CMYK	1.00, 0.00, 0.34, 0.40
HSL	160°, 100%, 30%
HSV	160°, 100%, 60%
XYZ	13.7402, 23.7221, 16.1665
YIQ	101.3250, -74.4960, -48.6080

Conversions

Conversions Part 2

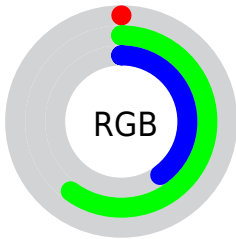
Format	Color
RYB	0, 92, 153
Decimal	39269
CIELab	55.81, -47.10, 17.90
CIELCh	56, 50.392, 159.190
Yxy	23.7221, 0.2562, 0.4423
Android (android.graphics.Color)	4278229349 (0xFF009965)
YUV	101.3250, -0.1602, -88.8620
Hunter-Lab	48.7053, -34.8779, 14.4139

Details

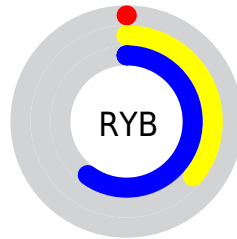
The XYZ color **13.7402, 23.7221, 16.1665** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.7575, 7.0208, 3.8800**, and the grayscale version is **12.4689, 13.1183, 14.2858**.

A 20% lighter version of the original color is **32.1539, 49.4050, 37.5472**, and **5.3195, 9.5737, 5.0576** is the 20% darker color. If you saturate the color by 10%, you get **13.7406, 23.7229, 16.1663**, and if you desaturate by 10%, it is **14.2058, 23.9324, 17.5614**.

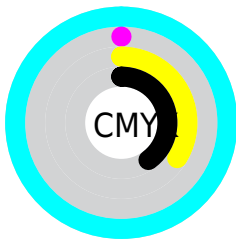
Distribution



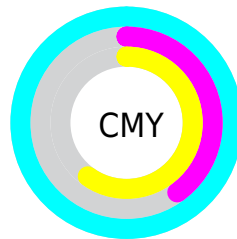
- Red (0%)
- Green (60%)
- Blue (40%)



- Red (0%)
- Yellow (36%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (34%)
- Black (40%)



- Cyan (100%)
- Magenta (40%)
- Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7402, 23.7221, 16.1665 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 13.7402, 23.7221, 16.1665 by changing the saturation by 10% instead.

■ 13.7402, 23.7221,
16.1665

■ 13.7402, 23.7221,
16.1665

209.1517,
271.4125, 242.2014

■ 8.0207, 15.1276,
9.4864

■ 32.2175, 49.5763,
37.6578

■ 4.1601, 8.9090,
4.9587

■ 45.7059, 67.6048,
53.3061

■ 1.7931, 4.6819,
2.1647

■ 62.5147, 89.5468,
72.7810

■ 0.5135, 2.0618,
0.6539

■ 83.0093, 115.7867,
96.5008

■ 0.0000, 0.6430,
0.0000

■ 107.5549,
146.7088, 124.8842

■ 0.0000, 0.0000,
0.0000

■ 136.5169,

182.6975, 158.3498

170.2607,
224.1373, 197.3160

■ 13.7402, 23.7221,
16.1665

■ 13.7402, 23.7221,
16.1665

■ 13.7406, 23.7229,
16.1663

■ 14.2058, 23.9324,
17.5614

■ 14.8365, 24.2252,
19.0493

■ 15.7019, 24.6371,
20.6353

■ 16.8298, 25.1824,
22.3221

■ 18.2439, 25.8732,
24.1124

■ 19.9652, 26.7205,
26.0083

■ 22.0128, 27.7338,
28.0123

■ 24.4041, 28.9222,
30.1262

■ 27.1551, 30.2940,
32.3523

Harmonies

Analogous

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



16.2798, 23.7221, 8.2852



13.7402, 23.7221, 16.1665



13.3296, 23.7221, 31.2008

Triad

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



13.7402, 23.7221, 16.1665



24.3520, 23.7221, 71.1486



32.2048, 23.7221, 10.5863

Complementary

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



13.7402, 23.7221, 16.1665



13.7575, 7.0208, 3.8800

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.



35.2591, 23.7221, 21.1127



13.7402, 23.7221, 16.1665



30.2463, 23.7221, 58.7962

Square

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



13.7402, 23.7221, 16.1665



18.8566, 23.7221, 67.9501



34.4873, 23.7221, 38.7327



26.6903, 23.7221, 6.1420

Rectangle

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



13.7402, 23.7221, 16.1665



14.2348, 23.7221, 44.4664



34.4873, 23.7221, 38.7327



33.5924, 23.7221, 13.2989

Sweetspot

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



13.7408, 23.7230, 16.1671



39.1845, 49.5489, 49.9445



12.8894, 23.5554, 3.8676



8.3279, 10.7801, 10.7190



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



13.7408, 23.7230, 16.1671



24.5172, 42.4476, 28.4789



13.7399, 18.2796, 32.9423



6.2953, 6.9908, 7.4785



11.3719, 19.6122, 13.4449



0.1869, 0.2999, 0.2897

Inverse Universe

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



13.7575, 7.0208, 3.8800



24.5580, 12.5410, 6.5321



13.4430, 7.3837, 0.7169



6.2911, 6.2556, 6.9131



11.3841, 5.8079, 3.2817



0.1861, 0.0932, 0.1326

Previews

White Background



This preview shows how the XYZ color 13.7402, 23.7221, 16.1665 looks on a white 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

Black Background



This preview shows how the XYZ color 13.7402, 23.7221, 16.1665 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 13.7402, 23.7221, 16.1665

Background



This preview shows how black text looks on a background with the XYZ color 13.7402, 23.7221, 16.1665.



This preview shows how white text looks on a background with the XYZ color 13.7402, 23.7221,

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

13.7402, 23.7221, 16.1665

Protanopia

21.8209, 23.4771, 13.5067

Deuteranopia

23.8906, 23.4684, 17.1806



Tritanopia

17.9186, 23.7833, 35.9940

Trichromacy



Original Color

13.7402, 23.7221, 16.1665



Protanomaly

15.8573, 21.8577, 14.2097



Deuteranomaly

16.6411, 21.5639, 16.6498



Tritanomaly

15.9225, 23.6411, 27.3909

Monochromacy



Original Color

13.7402, 23.7221, 16.1665



Achromatopsia

12.3695, 13.0136, 14.1719



Achromatomaly

11.1798, 15.4625, 14.7072

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7402, 23.7221, 16.1665 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, 153, 101)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 101)  
}
```

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, 153, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 101) }
```

Border

The CSS property to change the border of an element to XYZ 13.7402, 23.7221, 16.1665 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, 153, 101) }
```


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

```
.border{ border-color:rgb(0, 153, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 153, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 153, 101);  
box-shadow:4px 4px 4px 4px rgb(0, 153,  
101) }
```

Background

The CSS property to change the background color of an element to XYZ 13.7402, 23.7221, 16.1665 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 153, 101) }
```

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

```
.background{ background-color: rgb(0, 153,  
101) }
```

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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