

Converting Colors

XYZ(16.2251, 12.9488, 1.6442)

Have a look what the booklet for
XYZ(16.2251, 12.9488, 1.6442)
contains.

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Color

**XYZ(16.2301, 12.9588,
1.6459)**

Conversions

Conversions Part 1

Format	Color
Hex	995300
RGB	153, 83, 0
RGB Percent	60%, 33%, 0%
CMY	0.4000, 0.6745, 1.0000
CMYK	0.00, 0.46, 1.00, 0.40
HSL	33°, 100%, 30%
HSV	33°, 100%, 60%
XYZ	16.2301, 12.9588, 1.6459
YIQ	94.4680, 68.3630, -10.9730

Conversions

Conversions Part 2

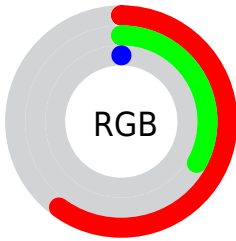
Format	Color
R_{YB}	129, 153, 0
Decimal	10048256
CIE _{Lab}	42.70, 24.37, 51.76
CIE _{LCh}	43, 57.209, 64.784
Yxy	12.9588, 0.5264, 0.4203
Android (android.graphics.Color)	4288238336 (0xFF995300)
YUV	94.4680, -46.5727, 51.3326
Hunter-Lab	35.9983, 17.4809, 22.4880

Details

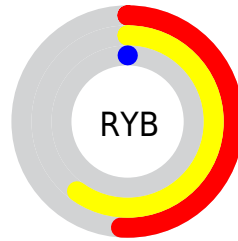
The XYZ color **16.2301, 12.9588, 1.6459** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **7.9399, 6.6801, 31.0076**, and the grayscale version is **10.8467, 11.4116, 12.4272**.

A 20% lighter version of the original color is **36.5918, 31.2267, 8.1017**, and **5.3809, 3.7560, 0.4414** is the 20% darker color. If you saturate the color by 10%, you get **16.2302, 12.9592, 1.6459**, and if you desaturate by 10%, it is **16.8817, 14.1207, 2.2992**.

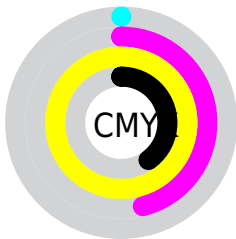
Distribution



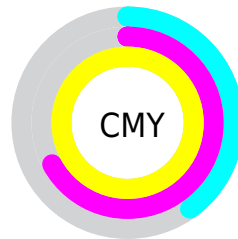
- Red (60%)
- Green (33%)
- Blue (0%)



- Red (51%)
- Yellow (60%)
- Blue (0%)



- Cyan (0%)
- Magenta (46%)
- Yellow (100%)
- Black (40%)





- Cyan (40%)
- Magenta (67%)
- Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 16.2301, 12.9588, 1.6459 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 16.2301, 12.9588, 1.6459 by changing the saturation by 10% instead.


 16.2301, 12.9588,
1.6459

 16.2301, 12.9588,
1.6459


 223.9395,
210.6535, 116.6106


 9.7790, 7.4002,
0.3233


 36.5514, 31.2297,
8.0479


 5.3138, 3.7136,
0.0000

 51.1524, 44.7109,
14.0960

 2.4692, 1.5147,
0.0000

 69.2007, 61.6016,
22.6001

 0.8797, 0.2990,
0.0000

 91.0616, 82.2864,
33.9788


 0.0000, 0.0000,
0.0000


 117.1007,
107.1495, 48.6507


 147.6831,


136.5755, 67.0342


 183.1742,
170.9487, 89.5480


 16.2301, 12.9588,
1.6459


 16.2301, 12.9588,
1.6459


 16.2302, 12.9592,
1.6459

 16.8817, 14.1207,
2.2992

 17.6539, 15.4192,
3.3149

 18.5787, 16.8701,
4.8519

 19.6694, 18.4810,
6.9743

 20.9376, 20.2587,
9.7365

■ 22.3939, 22.2094,
13.1869

■ 24.0476, 24.3391,
17.3691

■ 25.9076, 26.6532,
22.3230

■ 27.9819, 29.1569,
28.0856

Harmonies

Analogous

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



20.5318, 12.9588, 4.3884



16.2301, 12.9588, 1.6459



11.6332, 12.9588, 1.1752

Triad

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



16.2301, 12.9588, 1.6459



5.7264, 12.9588, 16.2012



17.7244, 12.9588, 44.2963

Complementary

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



16.2301, 12.9588, 1.6459



7.9399, 6.6801, 31.0076

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.



13.0270, 12.9588, 53.9064



16.2301, 12.9588, 1.6459



6.6506, 12.9588, 32.6351

Square

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



16.2301, 12.9588, 1.6459



6.1991, 12.9588, 6.1741



9.0895, 12.9588, 48.7144



21.5271, 12.9588, 26.9553

Rectangle

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



16.2301, 12.9588, 1.6459



9.1361, 12.9588, 1.6278



9.0895, 12.9588, 48.7144



16.1617, 12.9588, 48.8884

Sweetspot

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



16.2304, 12.9595, 1.6461



42.8804, 43.3527, 30.6222



14.2871, 7.2324, 6.6721



9.2090, 9.2416, 6.0966



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.



16.2304, 12.9595, 1.6461



28.8791, 22.8333, 2.8852



23.5857, 29.0688, 4.3679



6.4725, 6.7500, 6.5676



13.4478, 10.7780, 1.3716



0.2374, 0.2338, 0.0326

Inverse Universe

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



7.9399, 6.6801, 31.0076



14.0379, 11.6004, 55.4712



5.8137, 2.3329, 30.2806



6.1056, 6.4686, 7.8557



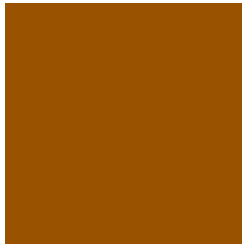
6.5947, 5.5861, 25.6384



0.1344, 0.1550, 0.3952

Previews

White Background



This preview shows how the XYZ color 16.2301, 12.9588, 1.6459 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



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

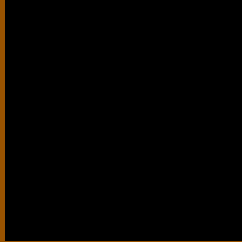
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.2301, 12.9588, 1.6459

Background



This preview shows how black text looks on a background with the XYZ color 16.2301, 12.9588, 1.6459.



This preview shows how white text looks on a background with the XYZ color 16.2301, 12.9588,

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

16.2301, 12.9588, 1.6459

Protanopia

11.7634, 13.1092, 2.2911

Deuteranopia

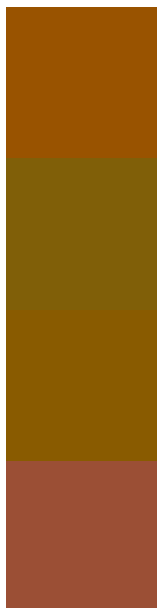
13.0850, 12.9549, 1.8109



Tritanopia

17.9255, 13.0002, 9.7481

Trichromacy



Original Color

16.2301, 12.9588, 1.6459

Protanomaly

13.0381, 12.7911, 2.0115

Deuteranomaly

14.0576, 12.8005, 1.7298

Tritanomaly

16.9562, 12.8176, 4.9485

Monochromacy



Original Color

16.2301, 12.9588, 1.6459

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

11.5420, 11.2834, 5.8446

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.2301, 12.9588, 1.6459 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(153, 83, 0)` looks like.

```
.text, #text, p{  
    color:rgb(153, 83, 0)  
}
```

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(153, 83, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 83, 0) }
```

Border

The CSS property to change the border of an element to XYZ 16.2301, 12.9588, 1.6459 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(153, 83, 0) }
```


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

```
.border{ border-color:rgb(153, 83, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 83, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 83, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 83, 0);  
box-shadow:4px 4px 4px 4px rgb(153, 83, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 16.2301, 12.9588, 1.6459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 83, 0) }
```

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

```
.background{ background-color: rgb(153, 83,  
0) }
```

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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