

Converting Colors

XYZ(12.9979, 23.4254, 12.2562)

Have a look what the booklet for
XYZ(12.9979, 23.4254, 12.2562)
contains.

XYZ(12.9915, 23.4226, 12.2238)	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(12.9915, 23.4226,
12.2238)**

Conversions

Conversions Part 1

Format	Color
Hex	009954
RGB	0, 153, 84
RGB Percent	0%, 60%, 33%
CMY	1.0000, 0.4000, 0.6706
CMYK	1.00, 0.00, 0.45, 0.40
HSL	153°, 100%, 30%
HSV	153°, 100%, 60%
XYZ	12.9915, 23.4226, 12.2238
YIQ	99.3870, -69.0390, -53.8950

Conversions

Conversions Part 2

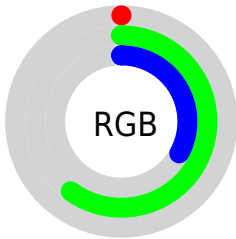
Format	Color
RYB	0, 99, 153
Decimal	39252
CIELab	55.50, -50.65, 26.80
CIELCh	56, 57.306, 152.114
Yxy	23.4226, 0.2671, 0.4816
Android (android.graphics.Color)	4278229332 (0xFF009954)
YUV	99.3870, -7.5858, -87.1624
Hunter-Lab	48.3969, -36.7786, 18.9027

Details

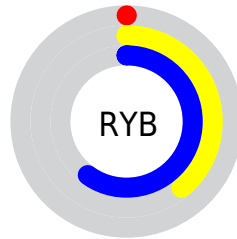
The XYZ color **12.9915, 23.4226, 12.2238** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **14.2119, 7.2025, 6.2729**, and the grayscale version is **11.9895, 12.6139, 13.7365**.

A 20% lighter version of the original color is **30.6967, 48.8114, 30.3579**, and **4.8911, 9.2479, 3.2775** is the 20% darker color. If you saturate the color by 10%, you get **12.9918, 23.4234, 12.2236**, and if you desaturate by 10%, it is **13.4779, 23.6412, 13.7283**.

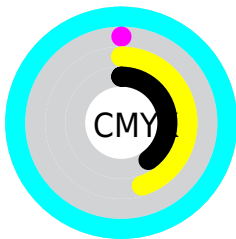
Distribution



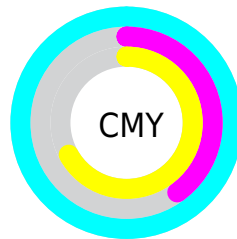
- Red (0%)
- Green (60%)
- Blue (33%)



- Red (0%)
- Yellow (39%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (45%)
- Black (40%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9915, 23.4226, 12.2238 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 12.9915, 23.4226, 12.2238 by changing the saturation by 10% instead.

■ 12.9915, 23.4226,
12.2238

■ 12.9915, 23.4226,
12.2238

204.5019,
269.8882, 216.9116

■ 7.4997, 14.9059,
6.7719

■ 30.8900, 49.0863,
30.5725

■ 3.8256, 8.7533,
3.2436

■ 44.0273, 67.0021,
44.3064

■ 1.6039, 4.5806,
1.2203

■ 60.4438, 88.8196,
61.6381

■ 0.3950, 2.0034,
0.0000

■ 80.5049, 114.9234,
82.9861

■ 0.0000, 0.6094,
0.0000

■ 104.5759,
145.6977, 108.7688

■ 0.0000, 0.0000,
0.0000

■ 133.0221,

181.5270, 139.4050

166.2090,
222.7957, 175.3130

■ 12.9915, 23.4226,
12.2238

■ 12.9915, 23.4226,
12.2238

■ 12.9918, 23.4234,
12.2236

■ 13.4779, 23.6412,
13.7283

■ 14.1403, 23.9468,
15.3834

■ 15.0489, 24.3759,
17.1966

■ 16.2317, 24.9432,
19.1728

■ 17.7129, 25.6608,
21.3165

■ 19.5139, 26.5399,
23.6321

■ 21.6541, 27.5903,
26.1236

■ 24.1512, 28.8211,
28.7950

■ 27.0217, 30.2406,
31.6502

Harmonies

Analogous

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



16.2920, 23.4226, 5.6839



12.9915, 23.4226, 12.2238



12.0160, 23.4226, 26.8379

Triad

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



12.9915, 23.4226, 12.2238



22.7238, 23.4226, 80.1079



34.5236, 23.4226, 10.8841

Complementary

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



12.9915, 23.4226, 12.2238



14.2119, 7.2025, 6.2729

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.



37.1205, 23.4226, 24.2135



12.9915, 23.4226, 12.2238



29.5380, 23.4226, 69.0412

Square

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



12.9915, 23.4226, 12.2238



16.9449, 23.4226, 71.6213



35.1411, 23.4226, 46.0151



28.5902, 23.4226, 5.2151

Rectangle

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



12.9915, 23.4226, 12.2238



12.6260, 23.4226, 41.3709



35.1411, 23.4226, 46.0151



35.8623, 23.4226, 14.3211

Sweetspot

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



12.9921, 23.4235, 12.2243



38.5316, 49.2878, 46.5067



14.0201, 24.1384, 3.9205



8.1692, 10.7166, 9.8831



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.



12.9921, 23.4235, 12.2243



23.1713, 41.9092, 21.3913



16.3248, 23.4494, 33.8040



6.2669, 6.9795, 7.3289



10.7541, 19.3651, 10.1917



0.1791, 0.2968, 0.2489

Inverse Universe

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



14.2119, 7.2025, 6.2729



25.3596, 12.8616, 10.7529



13.1929, 6.8835, 0.6335



6.3188, 6.2667, 7.0589



11.7617, 5.9589, 5.2701



0.1938, 0.0963, 0.1735

Previews

White Background



This preview shows how the XYZ color 12.9915, 23.4226, 12.2238 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 12.9915, 23.4226, 12.2238 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 12.9915, 23.4226, 12.2238

Background



This preview shows how black text looks on a background with the XYZ color 12.9915, 23.4226, 12.2238.



This preview shows how white text looks on a background with the XYZ color 12.9915, 23.4226,

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

12.9915, 23.4226, 12.2238

Protanopia

21.2328, 23.0441, 10.1663

Deuteranopia

23.4069, 22.9290, 12.8649



Tritanopia

17.8135, 23.5210, 35.0536

Trichromacy



Original Color

12.9915, 23.4226, 12.2238



Protanomaly

15.2030, 21.5960, 10.7643



Deuteranomaly

15.9324, 21.0796, 12.4616



Tritanomaly

15.3467, 23.1666, 24.7818

Monochromacy



Original Color

12.9915, 23.4226, 12.2238



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.6671, 15.0586, 12.9341

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9915, 23.4226, 12.2238 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, 84)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 84)  
}
```

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, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 84) }
```

Border

The CSS property to change the border of an element to XYZ 12.9915, 23.4226, 12.2238 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, 84) }
```


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

```
.border{ border-color:rgb(0, 153, 84) }
```

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, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 153, 84);  
box-shadow:4px 4px 4px 4px rgb(0, 153, 84)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9915, 23.4226, 12.2238 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, 84) }
```

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

```
.background{ background-color: rgb(0, 153,  
84) }
```

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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