

Converting Colors

XYZ(12.8367, 25.0219, 6.2874)

Have a look what the booklet for
XYZ(12.8367, 25.0219, 6.2874)
contains.

XYZ(12.7984, 24.9564, 6.2403)	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(12.7984, 24.9564,
6.2403)**

Conversions

Conversions Part 1

Format	Color
Hex	009F29
RGB	0, 159, 41
RGB Percent	0%, 62%, 16%
CMY	1.0000, 0.3765, 0.8392
CMYK	1.00, 0.00, 0.74, 0.38
HSL	135°, 100%, 31%
HSV	135°, 100%, 62%
XYZ	12.7984, 24.9564, 6.2403
YIQ	98.0070, -56.8860, -70.4060

Conversions

Conversions Part 2

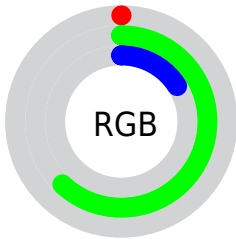
Format	Color
RYB	0, 126, 159
Decimal	40745
CIELab	57.03, -58.52, 48.81
CIELCh	57, 76.203, 140.170
Yxy	24.9564, 0.2909, 0.5673
Android (android.graphics.Color)	4278230825 (0xFF009F29)
YUV	98.0070, -28.1045, -85.9521
Hunter-Lab	49.9564, -41.6935, 27.5633

Details

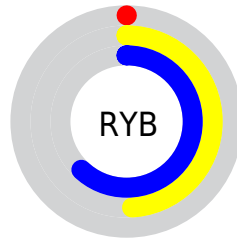
The XYZ color **12.7984, 24.9564, 6.2403** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **17.5689, 8.6794, 17.8896**, and the grayscale version is **11.6898, 12.2986, 13.3932**.

A 20% lighter version of the original color is **30.5373, 51.5827, 18.9367**, and **5.1540, 10.3081, 1.7180** is the 20% darker color. If you saturate the color by 10%, you get **12.7989, 24.9574, 6.2406**, and if you desaturate by 10%, it is **13.2488, 25.1618, 7.5030**.

Distribution



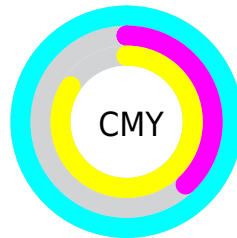
- Red (0%)
- Green (62%)
- Blue (16%)



- Red (0%)
- Yellow (49%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (74%)
- Black (38%)





- Cyan (100%)
- Magenta (38%)
- Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7984, 24.9564, 6.2403 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 12.7984, 24.9564, 6.2403 by changing the saturation by 10% instead.


 12.7984, 24.9564,
6.2403


 12.7984, 24.9564,
6.2403


203.2854,
277.6207, 170.5769


 7.3659, 16.0446,
2.9206


 30.5455, 51.5865,
18.9139


 3.7403, 9.5557,
1.0542


 43.5909, 70.0735,
29.1048

 1.5563, 5.1054,
0.0000

 59.9046, 92.5211,
42.4233

 0.3637, 2.3092,
0.0000

 79.8519, 119.3136,
59.2878

 0.0000, 0.7786,
0.0000

 103.7983,
150.8354, 80.1168

 0.0000, 0.0000,
0.0000

 132.1092,

187.4710, 105.3290

165.1497,
229.6046, 135.3428

■ 12.7984, 24.9564,
6.2403

■ 12.7984, 24.9564,
6.2403

■ 12.7989, 24.9574,
6.2406

■ 13.2488, 25.1618,
7.5030

■ 13.9309, 25.4783,
9.1247

■ 14.9223, 25.9459,
11.1330

■ 16.2573, 26.5820,
13.5510

■ 17.9657, 27.4015,
16.3999

■ 20.0739, 28.4174,
19.6994

■ 22.6058, 29.6419,
23.4681

■ 25.5835, 31.0858,
27.7233

■ 29.0273, 32.7594,
32.4816

Harmonies

Analogous

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



18.2626, 24.9564, 2.1898



12.7984, 24.9564, 6.2403



10.4737, 24.9564, 19.5912

Triad

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



12.7984, 24.9564, 6.2403



20.8994, 24.9564, 110.5298



43.8422, 24.9564, 13.4651

Complementary

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



12.7984, 24.9564, 6.2403



17.5689, 8.6794, 17.8896

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.



45.0636, 24.9564, 36.4956



12.7984, 24.9564, 6.2403



30.1696, 24.9564, 104.7687

Square

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



12.7984, 24.9564, 6.2403



14.3092, 24.9564, 85.3945



39.5606, 24.9564, 72.6028



36.5528, 24.9564, 4.1670

Rectangle

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



12.7984, 24.9564, 6.2403



10.4840, 24.9564, 36.8485



39.5606, 24.9564, 72.6028



45.0364, 24.9564, 19.3598

Sweetspot

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



12.7990, 24.9574, 6.2409



40.2026, 52.9478, 41.6179



20.0412, 28.7372, 4.4906



8.6407, 11.7323, 8.7597



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.7990, 24.9574, 6.2409



22.8526, 44.6674, 10.8171



15.7437, 26.1353, 21.7474



6.6175, 7.4277, 7.4202



10.1236, 19.7174, 5.0080



0.1967, 0.3588, 0.1722

Inverse Universe

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



17.5689, 8.6794, 17.8896



31.3802, 15.5101, 31.6017



14.6775, 7.5228, 2.6640



6.8310, 6.7253, 7.9614



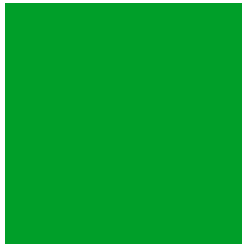
13.8934, 6.8619, 14.2216



0.2644, 0.1291, 0.3385

Previews

White Background



This preview shows how the XYZ color 12.7984, 24.9564, 6.2403 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 12.7984, 24.9564, 6.2403 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

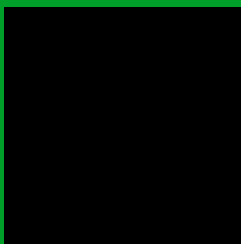
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

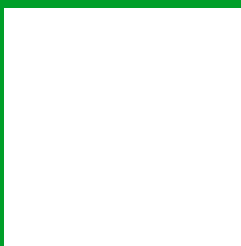
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.7984, 24.9564, 6.2403

Background



This preview shows how black text looks on a background with the XYZ color 12.7984, 24.9564, 6.2403.



This preview shows how white text looks on a background with the XYZ color 12.7984, 24.9564,

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

12.7984, 24.9564, 6.2403

Protanopia

22.2444, 24.5020, 5.1471

Deuteranopia

24.8550, 24.3926, 6.7664



Tritanopia

19.1150, 24.8417, 37.0452

Trichromacy



Original Color

12.7984, 24.9564, 6.2403



Protanomaly

15.2370, 22.6215, 5.3136



Deuteranomaly

16.1168, 22.1661, 6.3348



Tritanomaly

15.3536, 24.2122, 20.6938

Monochromacy



Original Color

12.7984, 24.9564, 6.2403



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.0426, 14.9929, 9.3858

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7984, 24.9564, 6.2403 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, 159, 41)` looks like.

```
.text, #text, p{  
    color:rgb(0, 159, 41)  
}
```

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, 159, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 159, 41) }
```

Border

The CSS property to change the border of an element to XYZ 12.7984, 24.9564, 6.2403 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, 159, 41) }
```


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

```
.border{ border-color:rgb(0, 159, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 159, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 159, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 159, 41);  
box-shadow:4px 4px 4px 4px rgb(0, 159, 41)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7984, 24.9564, 6.2403 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 159, 41) }
```

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

```
.background{ background-color: rgb(0, 159,  
41) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor