

Converting Colors

XYZ(12.7618, 8.9942, 49.0374)

Have a look what the booklet for
XYZ(12.7618, 8.9942, 49.0374)
contains.

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Color

**XYZ(12.7693, 8.9618,
49.2009)**

Conversions

Conversions Part 1

Format	Color
Hex	3148BD
RGB	49, 72, 189
RGB Percent	19%, 28%, 74%
CMY	0.8078, 0.7176, 0.2588
CMYK	0.74, 0.62, 0.00, 0.26
HSL	230°, 59%, 47%
HSV	230°, 74%, 74%
XYZ	12.7693, 8.9618, 49.2009
YIQ	78.4610, -51.2650, 31.5110

Conversions

Conversions Part 2

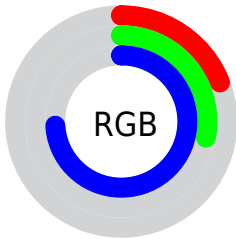
Format	Color
R_{YB}	49, 69, 189
Decimal	3229885
CIE _{Lab}	35.91, 32.33, -63.97
CIE _{LCh}	36, 71.678, 296.810
Yxy	8.9618, 0.1800, 0.1263
Android (android.graphics.Color)	4281419965 (0xFF3148BD)
YUV	78.4610, 54.4957, -25.8373
Hunter-Lab	29.9363, 23.7506, -76.4890

Details

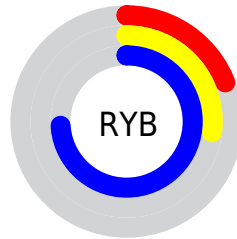
The XYZ color **12.7693, 8.9618, 49.2009** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **35.1793, 38.3173, 8.4487**, and the grayscale version is **7.2363, 7.6131, 8.2907**.

A 20% lighter version of the original color is **30.4213, 23.7316, 90.1661**, and **4.7424, 2.6000, 22.8061** is the 20% darker color. If you saturate the color by 10%, you get **11.1480, 6.7999, 48.8693**, and if you desaturate by 10%, it is **15.0360, 11.8458, 49.6383**.

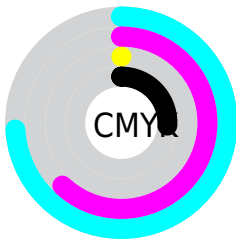
Distribution



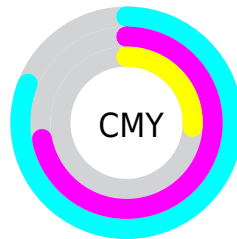
- Red (19%)
- Green (28%)
- Blue (74%)



- Red (19%)
- Yellow (27%)
- Blue (74%)



- Cyan (74%)
- Magenta (62%)
- Yellow (0%)
- Black (26%)



- Cyan (81%)
- Magenta (72%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7693, 8.9618, 49.2009 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 12.7693, 8.9618, 49.2009 by changing the saturation by 10% instead.

■ 12.7693, 8.9618,
49.2009

■ 12.7693, 8.9618,
49.2009

203.1014,
183.0927, 400.1779

■ 7.3458, 4.7163,
34.4121

■ 30.4935, 23.8235,
90.3738

■ 3.7275, 2.0818,
22.9305

■ 43.5250, 35.2085,
117.5951

■ 1.5492, 0.6543,
14.3374

■ 59.8231, 49.7420,
149.7976

■ 0.3589, 0.0000,
8.2143

■ 79.7533, 67.8086,
187.3999

■ 0.0000, 0.0000,
4.1426

■ 103.6808, 89.7925,
230.8206

■ 0.0000, 0.0000,
1.7039

131.9711,

■ 0.0000, 0.0000,

116.0783, 280.4781

0.3634

164.9896,
147.0502, 336.7910

■ 0.0000, 0.0000,
0.0000

■ 12.7693, 8.9618,
49.2009

■ 12.7693, 8.9618,
49.2009

■ 11.1480, 6.7999,
48.8693

■ 15.0360, 11.8458,
49.6383

■ 10.0987, 5.2919,
48.6335

■ 18.0075, 15.5099,
50.1890

■ 9.6763, 4.6561,
48.5331

■ 21.7380, 20.0069,
50.8604

■ 26.2758, 25.3843,
51.6591

■ 31.6652, 31.6865,
52.5915

■ 37.9471, 38.9544,
53.6633

■ 45.1599, 47.2267,
54.8798

■ 53.3398, 56.5399,
56.2463

■ 62.5207, 66.9286,
57.7677

Harmonies

Analogous

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



8.0705, 8.9618, 56.8718



12.7693, 8.9618, 49.2009



17.3691, 8.9618, 29.0398

Triad

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



12.7693, 8.9618, 49.2009



13.8308, 8.9618, 0.1350



2.6801, 8.9618, 8.5107

Complementary

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



12.7693, 8.9618, 49.2009



35.1793, 38.3173, 8.4487

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.



3.3398, 8.9618, 1.7284



12.7693, 8.9618, 49.2009



8.9816, 8.9618, 0.0000

Square

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



12.7693, 8.9618, 49.2009



18.1119, 8.9618, 2.5434



5.3335, 8.9618, 0.0000



3.1017, 8.9618, 24.6116

Rectangle

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



12.7693, 8.9618, 49.2009



19.2322, 8.9618, 16.1443



5.3335, 8.9618, 0.0000



2.7752, 8.9618, 5.3265

Sweetspot

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



12.7698, 8.9620, 49.2012



58.5279, 58.8600, 94.5026



26.3174, 39.7896, 42.2104



11.9752, 11.9474, 20.2175



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



12.7698, 8.9620, 49.2012



18.6623, 10.3350, 87.2374



15.0737, 8.3408, 48.9598



9.1397, 9.4718, 12.0187



6.5487, 3.2092, 32.6672



0.2966, 0.2059, 1.2930

Inverse Universe

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



23.2548, 13.4842, 7.5078



38.8658, 20.5127, 6.5707



29.9655, 42.3979, 9.5111



9.5924, 9.5612, 10.2425



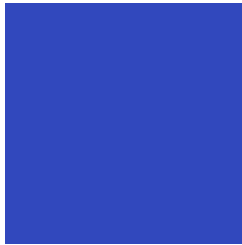
14.3063, 7.3537, 1.6405



0.5806, 0.2961, 0.1709

Previews

White Background



This preview shows how the XYZ color 12.7693, 8.9618, 49.2009 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 ✓ Pass

Black Background



This preview shows how the XYZ color 12.7693, 8.9618, 49.2009 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

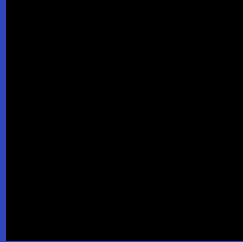
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7693, 8.9618, 49.2009

Background



This preview shows how black text looks on a background with the XYZ color 12.7693, 8.9618, 49.2009.



This preview shows how white text looks on a background with the XYZ color 12.7693, 8.9618,

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

12.7693, 8.9618, 49.2009

Protanopia

10.3888, 8.8634, 40.1930

Deuteranopia

8.5942, 8.7622, 28.8421



Tritanopia

6.2146, 8.7488, 13.4177

Trichromacy



Original Color

12.7693, 8.9618, 49.2009

Protanomaly

11.0097, 8.7917, 43.2362

Deuteranomaly

9.7135, 8.6221, 35.3347

Tritanomaly

7.6628, 8.2915, 23.0263

Monochromacy



Original Color

12.7693, 8.9618, 49.2009

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

8.1692, 7.6702, 18.1895

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7693, 8.9618, 49.2009 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(49, 72, 189)` looks like.

```
.text, #text, p{  
    color:rgb(49, 72, 189)  
}
```

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(49, 72, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 72, 189) }
```

Border

The CSS property to change the border of an element to XYZ 12.7693, 8.9618, 49.2009 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(49, 72, 189) }
```


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

```
.border{ border-color:rgb(49, 72, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 72, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 72, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 72, 189);  
box-shadow:4px 4px 4px 4px rgb(49, 72,  
189) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7693, 8.9618, 49.2009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 72, 189) }
```

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

```
.background{ background-color: rgb(49, 72,  
189) }
```

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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