

Converting Colors

XYZ(14.4821, 18.0049, 40.5196)

Have a look what the booklet for
XYZ(14.4821, 18.0049, 40.5196)
contains.

XYZ(14.9749, 18.3406, 40.7810)	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(14.9749, 18.3406,
40.7810)**

Conversions

Conversions Part 1

Format	Color
Hex	0080AA
RGB	0, 128, 170
RGB Percent	0%, 50%, 67%
CMY	0.9999, 0.4980, 0.3333
CMYK	1.00, 0.25, 0.00, 0.33
HSL	195°, 100%, 33%
HSV	195°, 100%, 67%
XYZ	14.9749, 18.3406, 40.7810
YIQ	94.5160, -89.7700, -14.0740

Conversions

Conversions Part 2

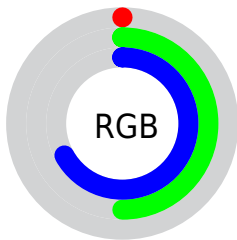
Format	Color
RYB	0, 73, 170
Decimal	32938
CIELab	49.91, -14.03, -30.53
CIElCh	50, 33.603, 245.322
Yxy	18.3406, 0.2021, 0.2475
Android (android.graphics.Color)	4278223018 (0xFF0080AA)
YUV	94.5160, 37.2136, -82.8905
Hunter-Lab	42.8259, -12.5295, -26.4808

Details

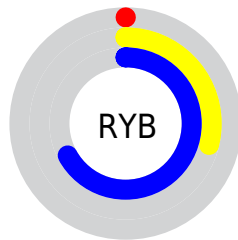
The XYZ color **14.9749, 18.3406, 40.7810** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **17.4071, 10.2046, 1.0533**, and the grayscale version is **10.6940, 11.2509, 12.2522**.

A 20% lighter version of the original color is **34.3309, 40.6576, 77.2724**, and **6.0660, 6.9000, 18.1517** is the 20% darker color. If you saturate the color by 10%, you get **14.9740, 18.3387, 40.7811**, and if you desaturate by 10%, it is **15.7663, 19.5792, 40.9787**.

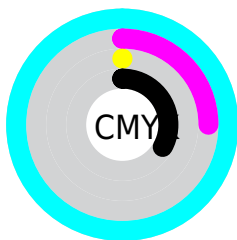
Distribution



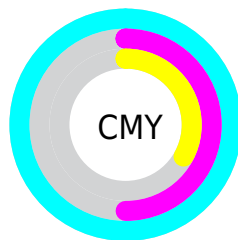
- Red (0%)
- Green (50%)
- Blue (67%)



- Red (0%)
- Yellow (29%)
- Blue (67%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (33%)



- Cyan (100%)
- Magenta (50%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 14.9749, 18.3406, 40.7810 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 14.9749, 18.3406, 40.7810 by changing the saturation by 10% instead.

■ 14.9749, 18.3406,
40.7810

■ 14.9749, 18.3406,
40.7810

■ 216.6056,
242.7839, 365.0540

■ 8.8880, 11.1948,
27.8296

■ 34.3812, 40.6168,
77.6014

■ 4.7247, 6.1980,
17.9593

■ 48.4312, 56.5161,
102.3074

■ 2.1197, 2.9659,
10.7516

■ 65.8663, 76.1019,
131.7688

■ 0.6999, 1.1139,
5.7880

■ 87.0519, 99.7587,
166.4040

■ 0.0000, 0.0000,
2.6499

■ 112.3532,
127.8710, 206.6316

■ 0.0000, 0.0000,
0.9181

■ 142.1358,

■ 0.0000, 0.0000,

160.8230, 252.8701

0.0000

176.7648,
198.9991, 305.5380

■ 14.9749, 18.3406,
40.7810

■ 14.9749, 18.3406,
40.7810

■ 14.9740, 18.3387,
40.7811

■ 15.7663, 19.5792,
40.9787

■ 16.7777, 20.9650,
41.1929

■ 18.0894, 22.5402,
41.4278

■ 19.7377, 24.3237,
41.6852

■ 21.7537, 26.3319,
41.9666

■ 24.1644, 28.5792,
42.2733

■ 26.9944, 31.0787,
42.6066

■ 30.2664, 33.8423,
42.9676

■ 34.0010, 36.8811,
43.3573

Harmonies

Analogous

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



12.8564, 18.3406, 32.0638



14.9749, 18.3406, 40.7810



18.0123, 18.3406, 43.3132

Triad

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



14.9749, 18.3406, 40.7810



24.3454, 18.3406, 18.3712



14.0947, 18.3406, 8.7221

Complementary

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



14.9749, 18.3406, 40.7810



17.4071, 10.2046, 1.0533

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.



16.8647, 18.3406, 7.0141



14.9749, 18.3406, 40.7810



22.9822, 18.3406, 11.3783

Square

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



14.9749, 18.3406, 40.7810



23.6790, 18.3406, 28.3174



20.1446, 18.3406, 7.8099



12.3937, 18.3406, 13.4487

Rectangle

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



14.9749, 18.3406, 40.7810



20.2141, 18.3406, 40.6457



20.1446, 18.3406, 7.8099



14.9180, 18.3406, 7.8550

Sweetspot

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



14.9756, 18.3412, 40.7815



48.6670, 56.1198, 77.2691



14.7531, 28.9011, 6.7812



10.3669, 12.0905, 17.1750



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



14.9756, 18.3412, 40.7815



26.9888, 32.9141, 73.9325



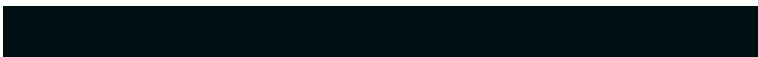
8.2084, 4.8069, 38.5257



7.5882, 8.2134, 9.6037



11.0604, 13.5810, 30.0139



0.3058, 0.4038, 0.7425

Inverse Universe

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



20.4745, 10.1054, 21.2939



37.0561, 18.2970, 38.1521



23.8707, 23.1317, 3.2078



7.7615, 7.6345, 9.0613



15.0834, 7.4421, 15.7825



0.3855, 0.1885, 0.4815

Previews

White Background



This preview shows how the XYZ color 14.9749, 18.3406, 40.7810 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



This preview shows how the XYZ color 14.9749, 18.3406, 40.7810 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 14.9749, 18.3406, 40.7810

Background



This preview shows how black text looks on a background with the XYZ color 14.9749, 18.3406, 40.7810.

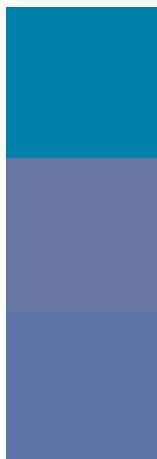


This preview shows how white text looks on a background with the XYZ color 14.9749, 18.3406,

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

14.9749, 18.3406, 40.7810

Protanopia

18.6200, 18.2990, 36.2689

Deuteranopia

18.6316, 18.1879, 41.5584



Tritanopia

13.1337, 18.4555, 28.4612

Trichromacy



Original Color

14.9749, 18.3406, 40.7810

Protanomaly

15.8530, 17.5484, 37.6736

Deuteranomaly

16.1125, 17.6071, 41.0774

Tritanomaly

13.7838, 18.4996, 32.5501

Monochromacy



Original Color

14.9749, 18.3406, 40.7810

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

10.6340, 12.8812, 20.3382

CSS Examples

Text

The CSS property to change the color of the text to XYZ 14.9749, 18.3406, 40.7810 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, 128, 170)` looks like.

```
.text, #text, p{  
    color:rgb(0, 128, 170)  
}
```

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, 128, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 128, 170) }
```

Border

The CSS property to change the border of an element to XYZ 14.9749, 18.3406, 40.7810 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, 128, 170) }
```


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

```
.border{ border-color:rgb(0, 128, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 128, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 128, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 128, 170);  
box-shadow:4px 4px 4px 4px rgb(0, 128,  
170) }
```

Background

The CSS property to change the background color of an element to XYZ 14.9749, 18.3406, 40.7810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 128, 170) }
```

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

```
.background{ background-color: rgb(0, 128,  
170) }
```

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