

Converting Colors

XYZ(12.3295, 16.5299, 32.9115)

Have a look what the booklet for
XYZ(12.3295, 16.5299, 32.9115)
contains.

XYZ(13.1664, 17.0003, 33.1593)	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(13.1664, 17.0003,
33.1593)**

Conversions

Conversions Part 1

Format	Color
Hex	007D9A
RGB	0, 125, 154
RGB Percent	0%, 49%, 60%
CMY	0.9999, 0.5098, 0.3961
CMYK	1.00, 0.19, 0.00, 0.40
HSL	191°, 100%, 30%
HSV	191°, 100%, 60%
XYZ	13.1664, 17.0003, 33.1593
YIQ	90.9310, -83.8090, -17.4810

Conversions

Conversions Part 2

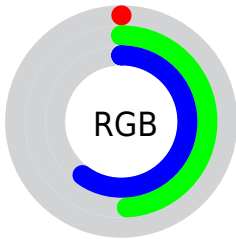
Format	Color
RYB	0, 69, 154
Decimal	32154
CIELab	48.26, -18.27, -23.76
CIELCh	48, 29.979, 232.440
Yxy	17.0003, 0.2079, 0.2685
Android (android.graphics.Color)	4278222234 (0xFF007D9A)
YUV	90.9310, 31.0930, -79.7465
Hunter-Lab	41.2314, -15.1547, -18.8205

Details

The XYZ color **13.1664, 17.0003, 33.1593** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **13.7669, 7.7504, 0.7713**, and the grayscale version is **9.8758, 10.3901, 11.3149**.

A 20% lighter version of the original color is **31.1433, 38.3733, 65.4399**, and **5.0326, 6.1482, 13.7534** is the 20% darker color. If you saturate the color by 10%, you get **13.1658, 16.9992, 33.1595**, and if you desaturate by 10%, it is **13.7433, 17.8511, 33.2935**.

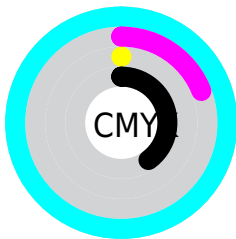
Distribution



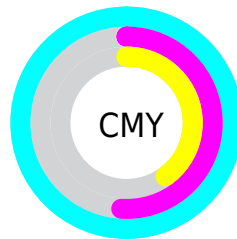
- Red (0%)
- Green (49%)
- Blue (60%)



- Red (0%)
- Yellow (27%)
- Blue (60%)



- Cyan (100%)
- Magenta (19%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (51%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1664, 17.0003, 33.1593 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 13.1664, 17.0003, 33.1593 by changing the saturation by 10% instead.

■ 13.1664, 17.0003,
33.1593

■ 13.1664, 17.0003,
33.1593

205.5975,
235.1741, 331.0209

■ 7.6210, 10.2347,
21.9764

■ 31.2012, 38.3263,
65.7430

■ 3.9032, 5.5549,
13.6414

■ 44.4213, 53.6555,
87.9809

■ 1.6475, 2.5763,
7.7358

■ 60.9304, 72.6080,
114.7409

■ 0.4231, 0.9148,
3.8410

■ 81.0937, 95.5682,
146.4415

■ 0.0000, 0.0000,
1.5385

■ 105.2768,
122.9205, 183.5013

■ 0.0000, 0.0000,
0.2464

■ 133.8449,

■ 0.0000, 0.0000,

155.0494, 226.3387

0.0000

167.1633,
192.3391, 275.3724

■ 13.1664, 17.0003,
33.1593

■ 13.1664, 17.0003,
33.1593

■ 13.1658, 16.9992,
33.1595

■ 13.7433, 17.8511,
33.2935

■ 14.4826, 18.8014,
33.4379

■ 15.4541, 19.8875,
33.5964

■ 16.6858, 21.1242,
33.7701

■ 18.2017, 22.5238,
33.9604

■ 20.0230, 24.0973,
34.1681

■ 22.1688, 25.8549,
34.3943

■ 24.6566, 27.8056,
34.6397

■ 27.5026, 29.9579,
34.9051

Harmonies

Analogous

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



11.7779, 17.0003, 24.8589



13.1664, 17.0003, 33.1593



15.4778, 17.0003, 37.7583

Triad

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



13.1664, 17.0003, 33.1593



21.9372, 17.0003, 20.5584



14.2371, 17.0003, 7.8062

Complementary

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



13.1664, 17.0003, 33.1593



13.7669, 7.7504, 0.7713

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.



16.8584, 17.0003, 7.2533



13.1664, 17.0003, 33.1593



21.5089, 17.0003, 13.3468

Square

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



13.1664, 17.0003, 33.1593



20.6844, 17.0003, 29.2639



19.5722, 17.0003, 8.9714



12.3458, 17.0003, 10.7786

Rectangle

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



13.1664, 17.0003, 33.1593



17.3151, 17.0003, 37.4020



19.5722, 17.0003, 8.9714



15.0542, 17.0003, 7.3730

Sweetspot

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



13.1670, 17.0009, 33.1597



40.0107, 46.7584, 62.4528



11.7688, 23.1968, 4.9721



8.6966, 10.2923, 14.0986



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



13.1670, 17.0009, 33.1597



23.7832, 30.6134, 60.1918



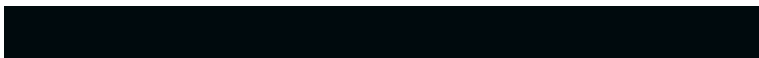
6.9227, 4.5123, 31.0783



6.2857, 6.8287, 7.9158



10.7508, 13.8982, 27.0237



0.1834, 0.2531, 0.4116

Inverse Universe

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



17.0287, 8.3515, 20.1170



30.8650, 15.1426, 36.1854



18.4032, 17.0231, 2.3167



6.4113, 6.3037, 7.5461



13.8852, 6.8083, 16.4526



0.2190, 0.1064, 0.3062

Previews

White Background



This preview shows how the XYZ color 13.1664, 17.0003, 33.1593 looks on a white background.

Color Contrast Check

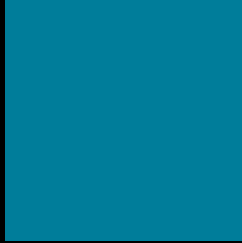
Large Text (above 18pt) WCAG AA ✓ Pass

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 13.1664, 17.0003, 33.1593 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

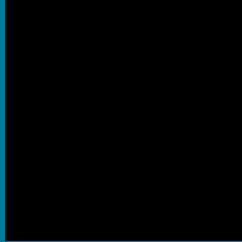
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.1664, 17.0003, 33.1593

Background



This preview shows how black text looks on a background with the XYZ color 13.1664, 17.0003, 33.1593.

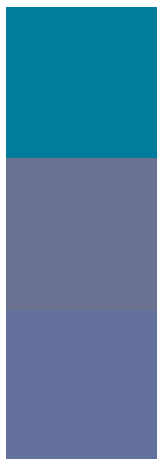


This preview shows how white text looks on a background with the XYZ color 13.1664, 17.0003,

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

13.1664, 17.0003, 33.1593

Protanopia

16.9598, 16.9188, 29.1598

Deuteranopia

17.3578, 17.0113, 34.2669



Tritanopia

12.1047, 16.9849, 26.3073

Trichromacy



Original Color

13.1664, 17.0003, 33.1593

Protanomaly

14.0213, 16.0540, 30.3767

Deuteranomaly

14.4764, 16.2129, 33.8189

Tritanomaly

12.4188, 16.9049, 28.5950

Monochromacy



Original Color

13.1664, 17.0003, 33.1593

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

9.6324, 11.8149, 17.6924

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1664, 17.0003, 33.1593 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, 125, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 125, 154)  
}
```

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, 125, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 125, 154) }
```

Border

The CSS property to change the border of an element to XYZ 13.1664, 17.0003, 33.1593 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, 125, 154) }
```


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

```
.border{ border-color:rgb(0, 125, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 125, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 125, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 125, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 125,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1664, 17.0003, 33.1593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 125, 154) }
```

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

```
.background{ background-color: rgb(0, 125,  
154) }
```

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