

Converting Colors

XYZ(13.7224, 14.6556, 32.3842)

Have a look what the booklet for
XYZ(13.7224, 14.6556, 32.3842)
contains.

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Color

**XYZ(13.7096, 14.6807,
32.2481)**

Conversions

Conversions Part 1

Format	Color
Hex	446E99
RGB	68, 110, 153
RGB Percent	27%, 43%, 60%
CMY	0.7333, 0.5686, 0.4000
CMYK	0.56, 0.28, 0.00, 0.40
HSL	210°, 38%, 43%
HSV	210°, 56%, 60%
XYZ	13.7096, 14.6807, 32.2481
YIQ	102.3440, -38.8350, 4.4690

Conversions

Conversions Part 2

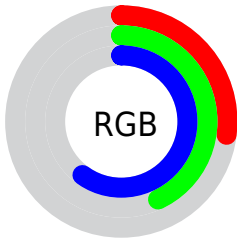
Format	Color
R _{YB}	68, 96, 153
Decimal	4484761
CIE _{Lab}	45.19, -1.55, -27.81
CIE _{LCh}	45, 27.851, 266.817
Y _{xy}	14.6807, 0.2261, 0.2421
Android (android.graphics.Color)	4282674841 (0xFF446E99)
YUV	102.3440, 24.9734, -30.1197
Hunter-Lab	38.3154, -3.1830, -23.0806

Details

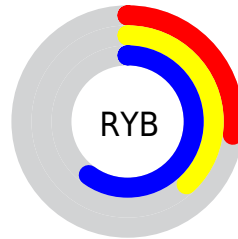
The XYZ color **13.7096, 14.6807, 32.2481** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.8653, 18.5594, 8.0048**, and the grayscale version is **12.6637, 13.3232, 14.5090**.

A 20% lighter version of the original color is **32.1561, 34.1814, 64.5774**, and **4.1758, 4.5143, 13.2216** is the 20% darker color. If you saturate the color by 10%, you get **11.9796, 12.6030, 31.9385**, and if you desaturate by 10%, it is **15.7921, 17.0489, 32.5957**.

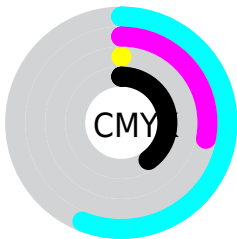
Distribution



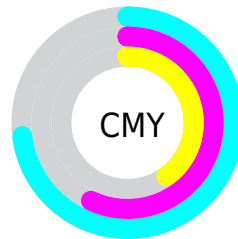
- Red (27%)
- Green (43%)
- Blue (60%)



- Red (27%)
- Yellow (38%)
- Blue (60%)



- Cyan (56%)
- Magenta (28%)
- Yellow (0%)
- Black (40%)



- Cyan (73%)
- Magenta (57%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7096, 14.6807, 32.2481 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 13.7096, 14.6807, 32.2481 by changing the saturation by 10% instead.

■ 13.7096, 14.6807,
32.2481

■ 13.7096, 14.6807,
32.2481

208.9637,
221.4254, 326.7754

■ 7.9993, 8.5956,
21.2847

■ 32.1634, 34.2921,
64.3022

■ 4.1463, 4.4784,
13.1390

■ 45.6377, 48.5871,
86.2301

■ 1.7852, 1.9446,
7.3925

■ 62.4307, 66.3876,
112.6498

■ 0.5088, 0.5750,
3.6266

■ 82.9077, 88.0779,
143.9799

■ 0.0000, 0.0000,
1.4228

■ 107.4342,
114.0424, 180.6390

■ 0.0000, 0.0000,
0.1594

136.3754,

■ 0.0000, 0.0000,

144.6656, 223.0455

0.0000

170.0968,
180.3318, 271.6182

■ 13.7096, 14.6807,
32.2481

■ 13.7096, 14.6807,
32.2481

■ 11.9796, 12.6030,
31.9385

■ 15.7921, 17.0489,
32.5957

■ 10.5766, 10.7992,
31.6643

■ 18.2471, 19.7199,
32.9819

■ 9.4735, 9.2527,
31.4239

■ 21.0948, 22.7069,
33.4084

■ 8.6339, 7.9417,
31.2151

■ 24.3535, 26.0217,
33.8764

■ 8.3067, 7.4137,
31.1305

■ 28.0402, 29.6757,
34.3874

■ 32.1709, 33.6792,
34.9424

■ 36.7608, 38.0425,
35.5427

■ 41.8242, 42.7751,
36.1893

■ 47.3749, 47.8863,
36.8834

Harmonies

Analogous

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



11.6715, 14.6807, 29.0924



13.7096, 14.6807, 32.2481



16.0442, 14.6807, 30.1526

Triad

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



13.7096, 14.6807, 32.2481



18.2817, 14.6807, 10.9269



10.5715, 14.6807, 10.0093

Complementary

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



13.7096, 14.6807, 32.2481



19.8653, 18.5594, 8.0048

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.



12.0529, 14.6807, 7.1399



13.7096, 14.6807, 32.2481



16.5152, 14.6807, 7.5585

Square

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



13.7096, 14.6807, 32.2481



18.8485, 14.6807, 16.6979



14.2004, 14.6807, 6.3841



9.9892, 14.6807, 15.2922

Rectangle

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



13.7096, 14.6807, 32.2481



17.4311, 14.6807, 26.3067



14.2004, 14.6807, 6.3841



10.9723, 14.6807, 8.7927

Sweetspot

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



13.7101, 14.6812, 32.2485



42.5182, 45.4992, 60.5133



16.6175, 25.1486, 18.8740



9.1497, 9.8053, 13.3279



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.



13.7101, 14.6812, 32.2485



20.7009, 21.6273, 57.0554



10.2014, 7.6638, 31.0789



6.1239, 6.5051, 7.8618



6.8986, 6.1939, 25.7396



0.1394, 0.1652, 0.3969

Inverse Universe

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



18.0189, 12.0330, 16.1252



29.5833, 17.6344, 23.4894



25.5719, 29.9725, 9.9070



6.3296, 6.2710, 7.1160



11.9409, 6.0306, 6.2136



0.1968, 0.0975, 0.1893

Previews

White Background



This preview shows how the XYZ color 13.7096, 14.6807, 32.2481 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 13.7096, 14.6807, 32.2481 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

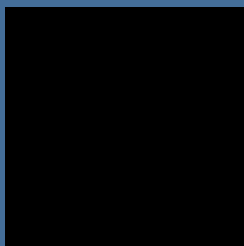
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

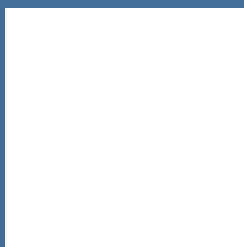
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.7096, 14.6807, 32.2481

Background



This preview shows how black text looks on a background with the XYZ color 13.7096, 14.6807, 32.2481.

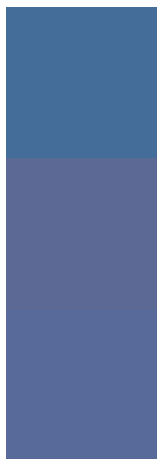


This preview shows how white text looks on a background with the XYZ color 13.7096, 14.6807,

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

13.7096, 14.6807, 32.2481

Protanopia

14.9906, 14.6002, 30.4618

Deuteranopia

15.0113, 14.7159, 32.6211



Tritanopia

11.5197, 14.6120, 21.6153

Trichromacy



Original Color

13.7096, 14.6807, 32.2481

Protanomaly

14.4189, 14.6022, 30.9127

Deuteranomaly

14.4838, 14.5978, 32.6261

Tritanomaly

12.2028, 14.5516, 25.0873

Monochromacy



Original Color

13.7096, 14.6807, 32.2481

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.7192, 13.6573, 20.0549

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7096, 14.6807, 32.2481 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(68, 110, 153)` looks like.

```
.text, #text, p{  
    color:rgb(68, 110, 153)  
}
```

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(68, 110, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 110, 153) }
```

Border

The CSS property to change the border of an element to XYZ 13.7096, 14.6807, 32.2481 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(68, 110, 153) }
```


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

```
.border{ border-color:rgb(68, 110, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 110, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 110, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 110, 153);  
box-shadow:4px 4px 4px 4px rgb(68, 110,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 13.7096, 14.6807, 32.2481 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 110, 153) }
```

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

```
.background{ background-color: rgb(68, 110,  
153) }
```

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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