

piano Package Documentation and Examples

Émile Daneault, maintained by Ruslan López Carro

Version 1.2

1 Introduction

The `piano` package provides commands to draw piano keyboard diagrams in LaTeX documents. It supports various keyboard ranges (1 octave, 1.5 octaves, and 2 octaves) with the ability to highlight up to 7 keys.

2 Key Naming Convention

Keys are named using the following convention:

- **White keys (first octave):** Co, Do, Eo, Fo, Go, Ao, Bo
- **Black keys (first octave):** Cso, Dso, Fso, Gso, Aso
- **White keys (second octave):** Ct, Dt, Et, Ft, Gt, At, Bt
- **Black keys (second octave):** Cst, Dst, Fst, Gst, Ast

Where:

- o = first octave (lower)
- t = second octave (higher)
- s = sharp (black key)

3 Available Commands

3.1 `\keyboard`

Draws a 1-octave keyboard starting with C, with up to 7 highlighted keys.

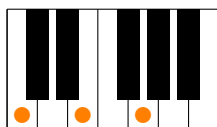


Figure 1: C major triad (1-octave keyboard)

Example usage:

```
\keyboard[Co] [Eo] [Go]
```

3.2 `\keyboardf`

Draws a 1-octave keyboard starting with F, with up to 7 highlighted keys.

Example usage:

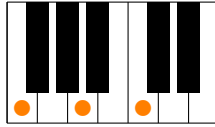


Figure 2: F major triad (1-octave keyboard starting with F)

`\keyboardf [Fo] [Ao] [Co]`

Please note that using `Ct` instead of `Co` would place the highlight on the second octave's C key, which is not rendered in this keyboard type.

3.3 `\keyboardoneandahalfoctaves`

Draws a 1.5-octave keyboard starting with C, with up to 7 highlighted keys.

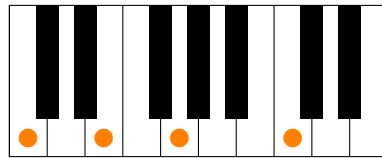


Figure 3: C major chord with octave (1.5-octave keyboard)

Example usage:

`\keyboardoneandahalfoctaves [Co] [Eo] [Go] [Ct]`

Please note that using `Gt` instead of `Go` would place the highlight on the second octave's G key, which is not rendered in this keyboard type.

3.4 `\keyboardoneandahalfoctavesf`

Draws a 1.5-octave keyboard starting with F, with up to 7 highlighted keys.

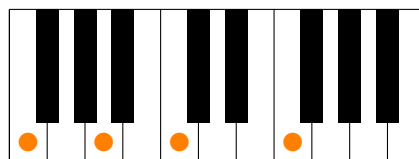


Figure 4: F major chord with octave (1.5-octave keyboard starting with F)

Example usage:

`\keyboardoneandahalfoctavesf [Fo] [Ao] [Co] [Ft]`

3.5 `\keyboardtwooctaves`

Draws a 2-octave keyboard starting with C, with up to 7 highlighted keys.

Example usage:

`\keyboardtwooctaves [Co] [Eo] [Gso] [Ct] [Et]`

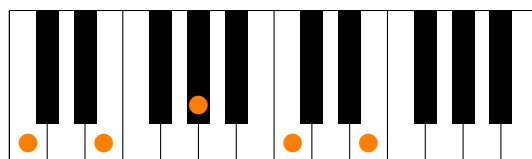


Figure 5: C augmented chord (2-octave keyboard)

3.6 `\keyboardftwooctaves`

Draws a 2-octave keyboard starting with F, with up to 7 highlighted keys.

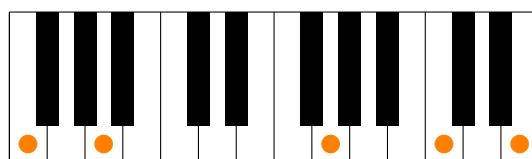


Figure 6: F major 9th chord (2-octave keyboard starting with F)

Example usage:

```
\keyboardftwooctaves[Fo] [Ao] [Ct] [Et] [Gt]
```

4 Chord Examples

4.1 Major Chords



Figure 7: C Major

```
\keyboard[Co] [Eo] [Go]
```

```
\keyboardf[Fo] [Ao] [Co]
```

```
\keyboardf[Go] [Bo] [Do]
```

4.2 Minor Chords

```
\keyboard[Co] [Dso] [Go]
```

```
\keyboardf[Fo] [Aso] [Co]
```

```
\keyboardf[Go] [Aso] [Do]
```

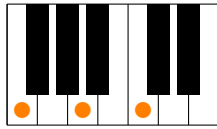


Figure 8: F Major

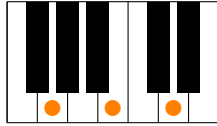


Figure 9: G Major

4.3 Seventh Chords

```
\keyboardoneandahalfoctaves[Co] [Eo] [Go] [Aso]
```

```
\keyboardoneandahalfoctaves[Co] [Dso] [Go] [Aso]
```

4.4 Scales

```
\keyboardoneandahalfoctaves[Co] [Do] [Eo] [Fo] [Go] [Ao] [Bo]
```

```
\keyboardoneandahalfoctaves[Co] [Dso] [Eo] [Fo] [Gso] [Ao] [Bso]
```

Here please note that you can't add more than seven notes to a diagram.

```
\keyboardoneandahalfoctaves[Co] [Cso] [Do] [Dso] [Eo] [Fo] [Fso]
```

Here please note that you can't add more than seven notes to a diagram.

5 Usage Tips

- All commands accept up to 7 optional arguments for highlighted keys
- Arguments can be omitted if you want fewer highlighted keys
- The highlighting color is orange (RGB: 255, 127, 0)
- Keyboard size is fixed and cannot be customized

6 Complete Example

Here's a complete example showing how to use the package in a document:

```
\documentclass{article}
\usepackage{piano}

\begin{document}
```

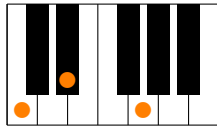


Figure 10: C Minor

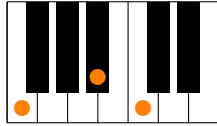


Figure 11: F Minor

```
\begin{figure}[thpb]
  \centering
  \keyboard[Co][Eo][Gso][Ct][Et]
  \caption{C augmented chord}
  \label{Chord1}
\end{figure}

\end{document}
```

7 License

This package is released under the LaTeX Project Public Licence version 1.3c.

8 Package Maintainer

Ruslan López Carro
<https://ctan.org/home/javatlacati>

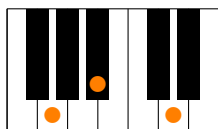


Figure 12: G Minor

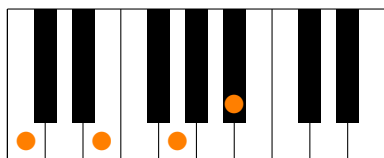


Figure 13: C Major 7th

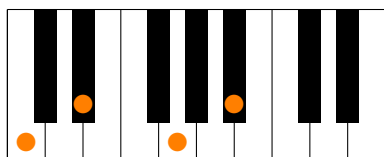


Figure 14: C Minor 7th

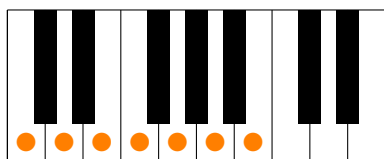


Figure 15: C Major Scale

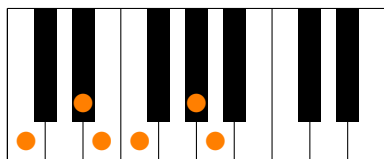


Figure 16: C Minor Scale (natural)

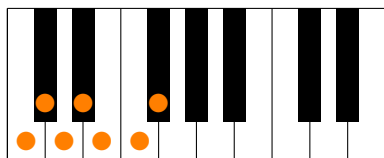


Figure 17: Chromatic Scale