CONVIV Interface And Layout

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CONVIV is written in FORTRAN.

FORTRAN is (so far) not (really) well designed to parse input files.

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CONVIV allows to investigate the spectroscopy of a molecule through the VMFCI method.

- We need to provide CONVIV with the information about the molecule.
- We need to describe the VMFCI steps we want to take.
- And even if we are not specialist in Quantum Chemistry.
- So, we want a (smart) "black box".
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Sorry, I’m a C++ programmer...
We chose the JSON format (JavaScript Object Notation, see http://www.json.org)

- A very simple syntax to read an write arrays or associative arrays of strings, floating point numbers, booleans,...
- It’s a text format that can be modified with a simple text editor.
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We chose the **Fast Light ToolKit** ([http://www.fltk.org](http://www.fltk.org))

- A very permissive license.
- No extra dependency.
- Pre-compiled for a lot of Operating Systems.
- Used by a lot of scientific softwares:
  - open source, like ITK, the Insight Segmentation and Registration Toolkit for image analysis
  - free software, like VMD, Visual Molecular Dynamics for molecules visualization.

- CONVIVIAL runs on Win32 (XP, Vista, 7), Linux, Solaris, *BSD, MacOSX.

- Easy to hack: just unpack and ’make’. 
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