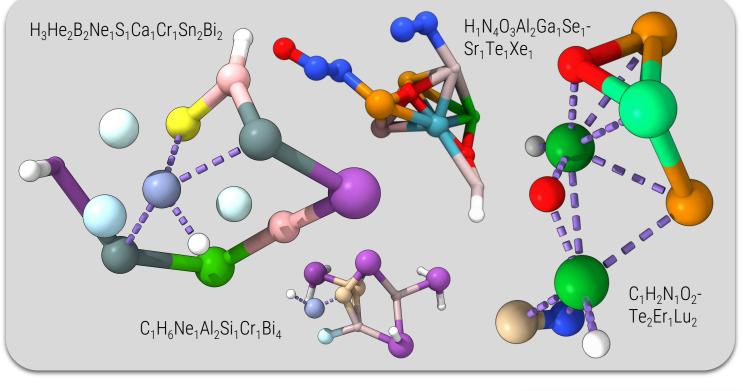
## MindlessGen

## Generate "mindless" molecules from scratch!

... powered by xTB and ORCA.





Simple but extensive input in **TOML** format

SotA Python code base

- Detailed atom composition possible
- Self-consistent fragment detection
- xTB geometry optimization & DFT sanity check
- Isomerization reactions



[generate]

# > Minimum number of atoms in the generated molecule. Options min\_num\_atoms = 2

# > Maximum number of atoms in the generated molecule. Options min\_num\_atoms = 100

# > Initial coordinate scaling factor. Options: <float>
init\_scaling = 3.0

# > Increase in the coordinate scaling factor per trial after increase\_scaling\_factor = 1.3

# > Distance threshold for the inital, randomly generated coordinate scaling factor per trial after increase\_scaling\_factor = 1.3

# > Distance threshold for the inital, randomly generated coordinates that are not specified are only added by random if the inital interpretation in the inital interpretation in the inital interpretation in the inital interpretation in the inital initial initial

github.com/grimme-lab/MindlessGen