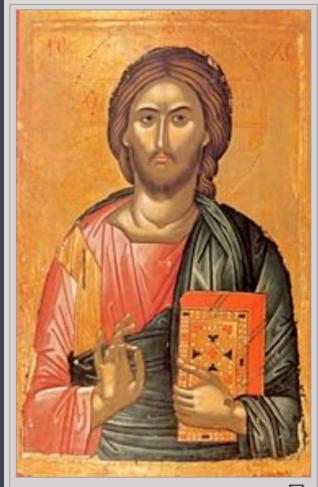
## **Build-Benedictions**

buildben init\_proj

Managing Multiple (Python) Projects & Dependencies

By Dr. Martin Kuric



Icon of Jesus Christ

Pantokrator by Theophanes
the Cretan. His right hand
is raised in benediction.

### From Wikipedia:

"A benediction (Latin: bene, 'well' + dicere, 'to speak') is a short invocation for divine help, blessing and guidance [...]."

"Invocation is the act of calling upon a deity, spirit, or supernatural force, typically through prayer, ritual, or spoken formula, to seek guidance, assistance, or presence."

#### **Build-Benedictions: Main Features**

- Standardize setups with template scaffolds:
  - buildben init\_proj : Create a new project. (done)
  - buildben add\_experiment : Add a new experiment to a project. (done)
  - buildben init\_database : Create a new central database. (wip)
- Integrate **popular tools**:
  - o direnv: Virtual environment & variables.
  - pip-tools : Dependency management.
  - just: For summarizing tasks (upgrade, test, etc.).
  - Docker: Snapshot current state of project.

## Common Practice: ``requirements.txt`` & ``.venv``

# Common Practice: Installing from GitHub

#### Why this is not enough:

- requirements.txt only holds dependencies, not the **project structure**.
  - Python can't import local packages.
  - VS Code (sometimes) struggles with refactoring & typing across packages.
- requirements.txt not up-to-date?
- venv not activated?

Build-Benedictions: init proj