

Py-ART the Python ARM Radar Toolkit

(Not just for radar gurus)

<https://github.com/ARM-DOE/pyart>

- Py-ART uses a moderately complex data model which closely mirrors the CF-Radial community file format.
- It makes heavy use of Python dictionaries to form a self-describing radar object. Rich IO layer allowing a very large number file formats to be read into the data model. Primary output format is CF-Radial. We are investigating adding ODIM as an output format.
- Community codebase on GitHub, main fork is DoE maintained and moderated. Set of core dependences (all in Anaconda Python) with many optional dependencies which, when present, increase functionality.

Unwatch 38 Unstar 58 Fork 53

| Contributor | Commits | ++ | -- |
|----------------|---------|---------|---------|
| scollis | 167 | 6,551 | 724 |
| jjhelmus | 949 | 487,488 | 242,206 |
| kirknorth | 40 | 20,303 | 19,246 |
| Rumpkie | 11 | 196 | 20 |
| gamaanderson | 34 | 1,889 | 1,377 |
| swnesbitt | 7 | 603 | 53 |
| nguy | 24 | 803 | 391 |
| deeplycloudy | 3 | 2,500 | 2,444 |
| josephhardinee | 15 | 543 | 55 |
| tjlang | 4 | 294 | 21 |
| akleeman | 2 | 14 | 9 |
| kmuehlbauer | 4 | 759 | 1 |
| WeatherGod | 1 | 1,388 | 1,371 |
| codypiersall | 1 | 1 | 1 |
| vanandel | 1 | 0 | 0 |



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Coming Soon: Py-ART Roadmap Survey

- Set of key operations for radar data including quality control, retrievals and gridding.
- Community codebase, contributions accepted from a very vibrant group of users.
- 100's of users, 1000's of installs.
- Integrated with ADI. Any work done in Py-ART is very easy to implement as a VAP.
- Some recent additions:
 - Geotiff output, Tim Lang.
 - New variational Phase processing, Kirk North.
 - Argentinian radar ingest, Steve Nesbitt.
 - New displays for profiling radars, Nick Guy.
 - Ingest from CSU CHILL, Joseph Hardin.
 - Clean up and improvement of plotting grids on maps, Gamma Anderson.

