Overview
• How does the software development process work?
• Why are raster plots and declarative syntax relevant in MetPy?
• How is documentation maintained once new code is merged into the GitHub repository?

Software Development Process
• Planning
  • Identify the issue to be fixed or new functionality that needs to be added
  • Identify stakeholders’ software needs
• Design
  • Compile a design that resolves the issues identified in the planning phase
• Implementation
  • Draw from the design to write the code to fulfill the identified criteria
• Testing
  • Create sufficient tests to ensure all new or edited code is verified to work properly
• Integration
  • Create a pull request for the new code into the code repository, resolving any conflicts

The case for Raster Plots
• Raster Plots help visualize key atmospheric data
• MetPy does not currently support declarative syntax when trying to use Matplotlib’s pcolormesh
• Declarative syntax allows for easy, flexible plotting of data
• Radar is a type of raster plot
  • Functionality may be extended to making radar plots
  • MetPy’s current process for making radar plots is extensive
  • Declarative radar plots will remove the involved work required to plot

Documentation Improvements
• After code is published, it needs to be maintained
• Documentation provides clarity on best practices and use cases for existing functions in MetPy
• As new functions are added, updates need to be reflected in documentation

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