Hewlett Packard Enterprise

CHAPEL RELEASE NOTES, 1.25.1 / 1.26.0: DOCUMENTATION UPDATES

Chapel Team

December 9, 2021 / March 31, 2022

DOCUMENTATION UPDATES

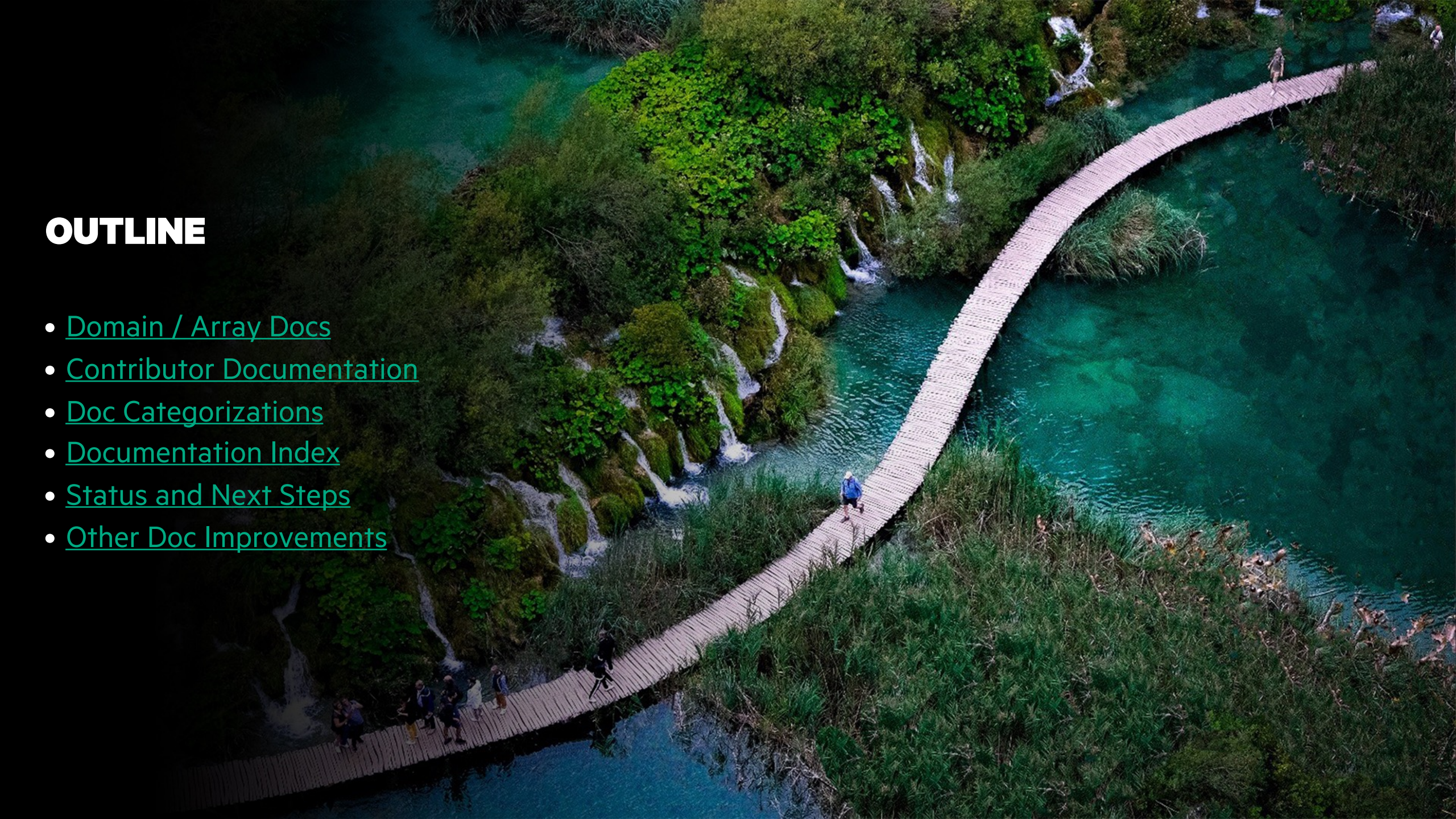
Background and This Effort

Background:

- Chapel's documentation has been hosted online for many releases now
  - https://chapel-lang.org/docs/
- However, by nature, documentation can always benefit from improvements or reorganizations

This Effort:

- Made several improvements to content and organization
  - merged domain and array "built-in types and functions" sections into the language specification
  - moved contributor documentation online
  - categorized the language specification chapters and package modules
  - added the index to the sidebar



OUTLINE

- Domain / Array Docs
- Contributor Documentation
- Doc Categorizations
- Documentation Index
- Status and Next Steps
- Other Doc Improvements

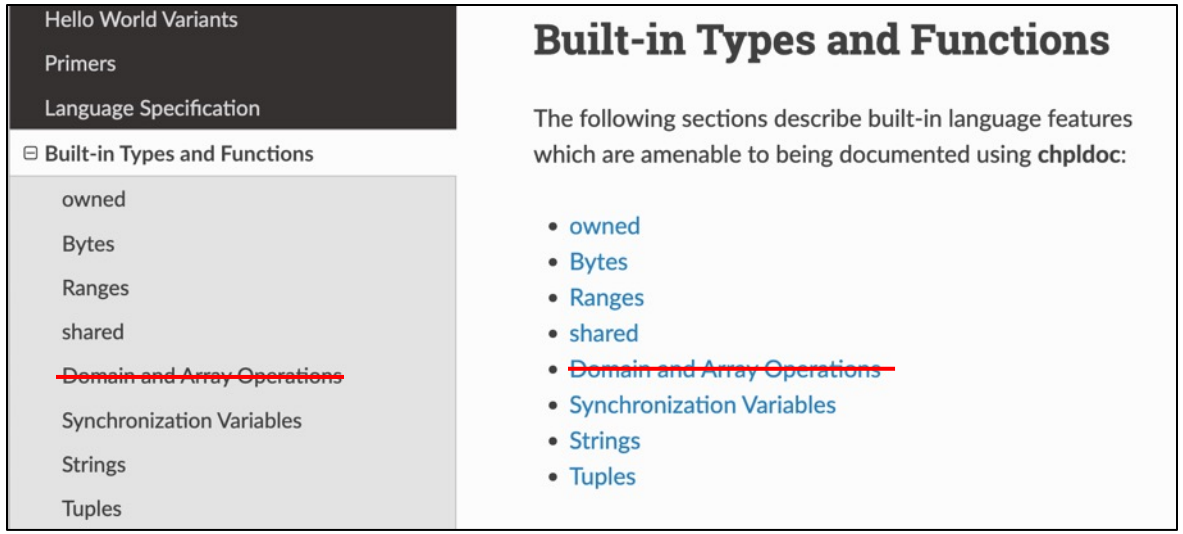
DOCUMENTATION UPDATES

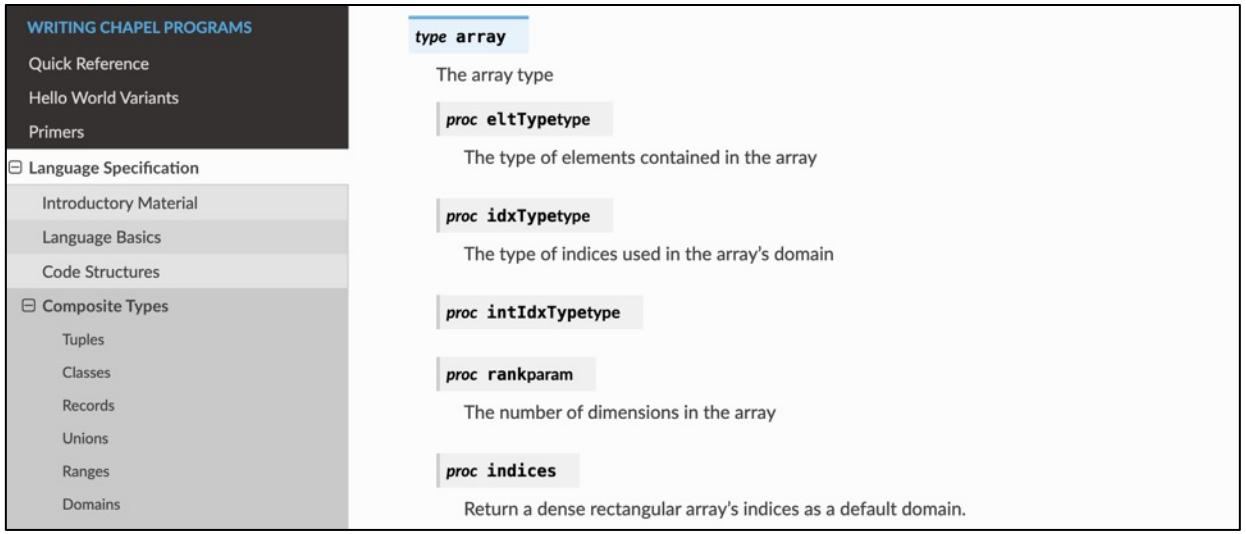
Domain and Array Documentation

Background: The language specification has overlapping content with “built-in types and functions”

- the language specification is written and maintained manually
- “built-in types and functions” is generated by ‘chpldoc’ from code, so is generally more accurate

This Effort: Moved ‘chpldoc’-generated domain/array docs into the spec, replacing redundant content





Impact: Less redundancy, improved accuracy

Next Steps: Do the same for the remaining seven sections

DOCUMENTATION UPDATES

Contributor Documentation

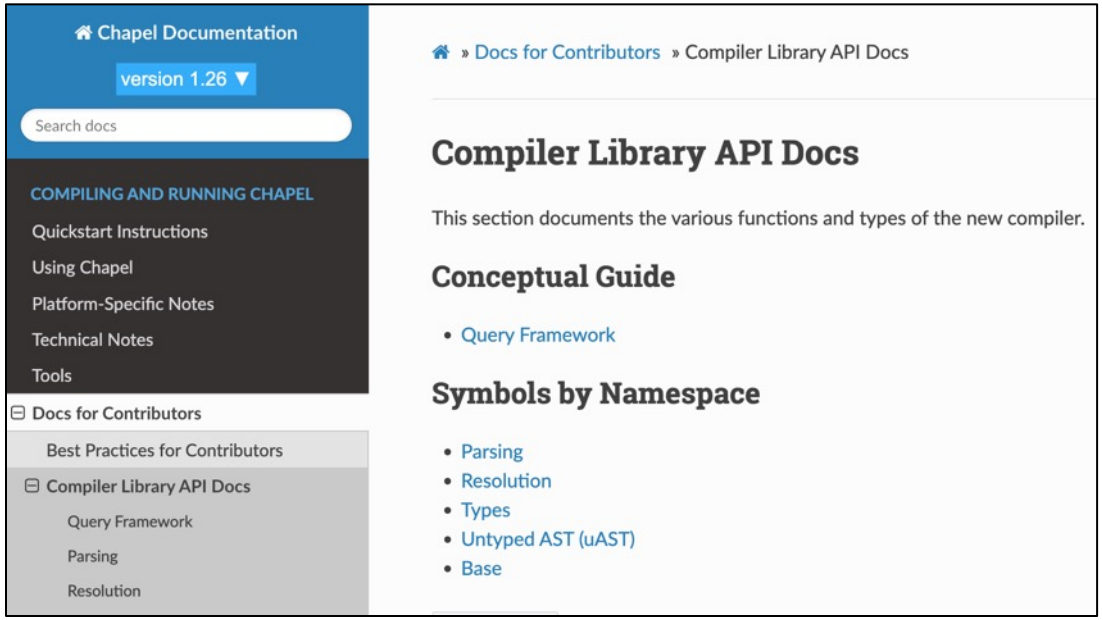
Background: For years, we have had documentation targeting project contributors

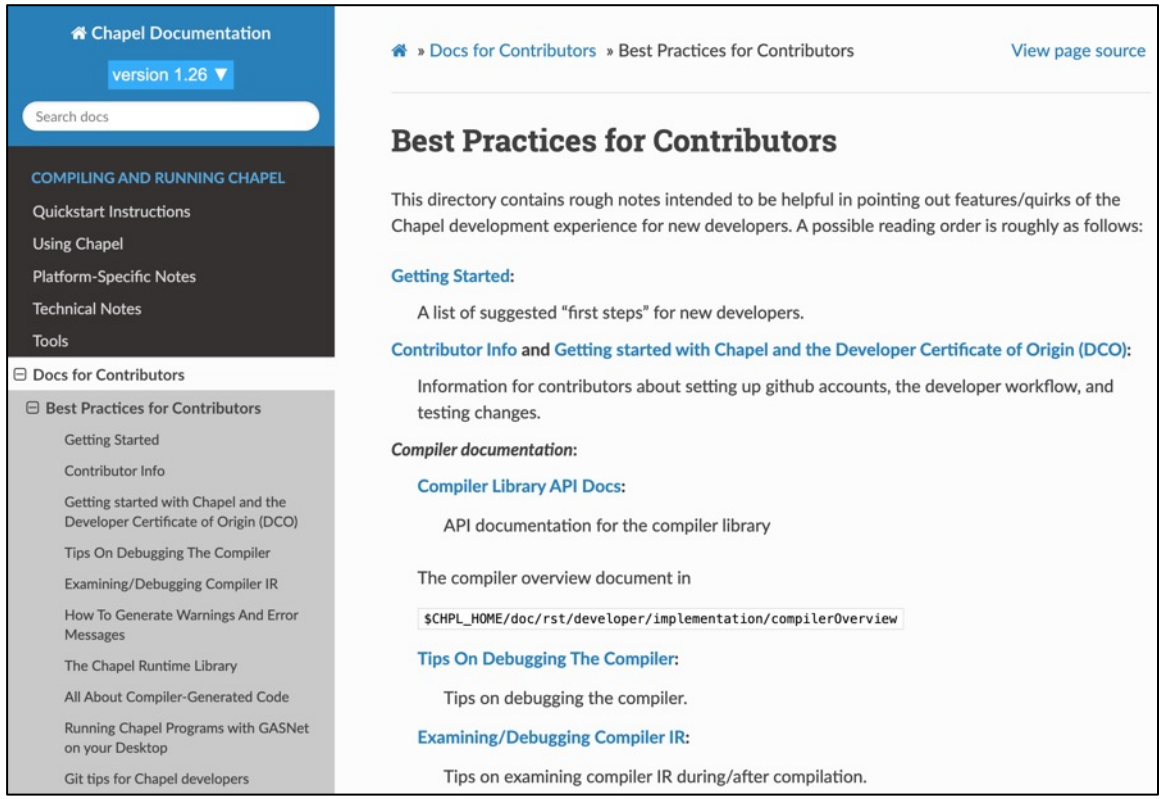
- has only existed as text files within the GitHub repository

This Effort: Moved this contributor documentation online

Impact: Easier to find, read, search

Next Steps: Continue to improve content, organization





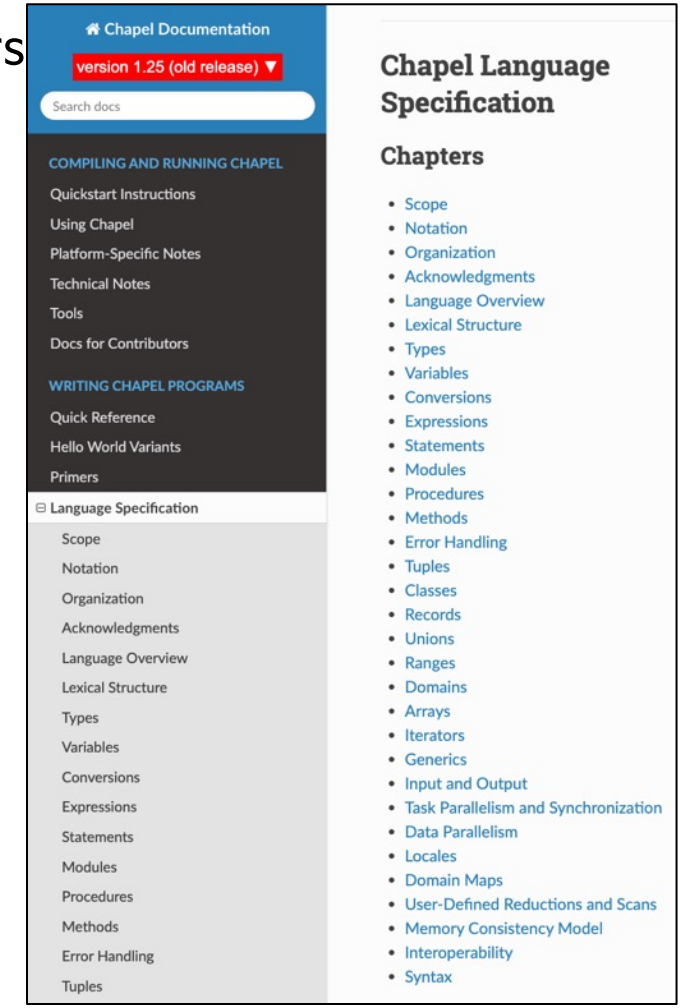
DOCUMENTATION UPDATES

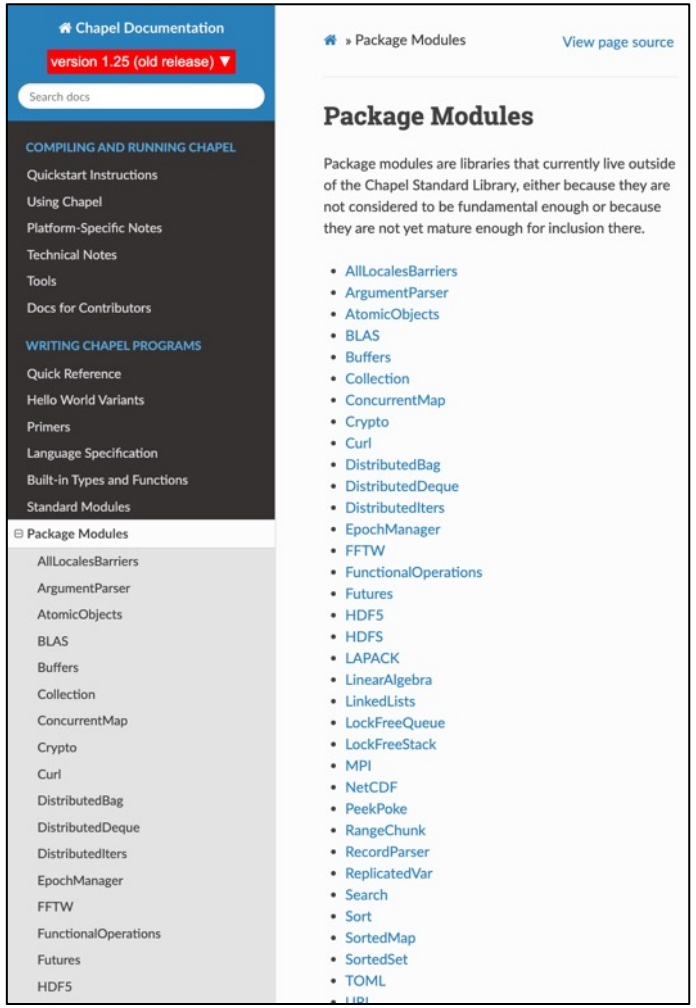
Documentation Categorizations

Background: Language specification chapters and package modules were simple lists

This Effort: Sorted each into categories

Impact: Table of contents and sidebar are more hierarchal, less of a laundry list





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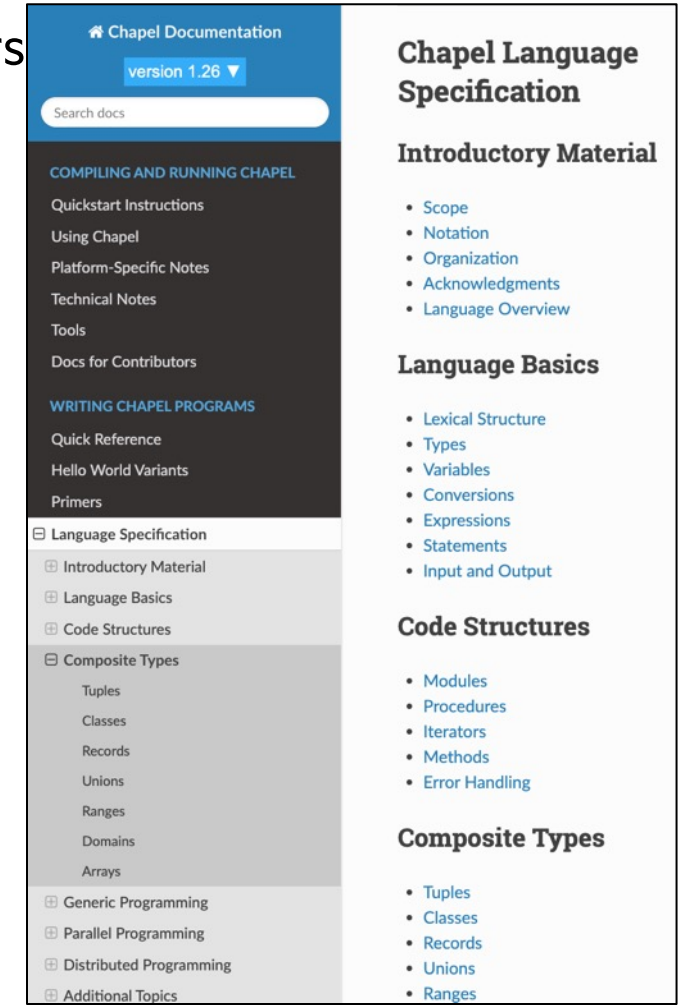
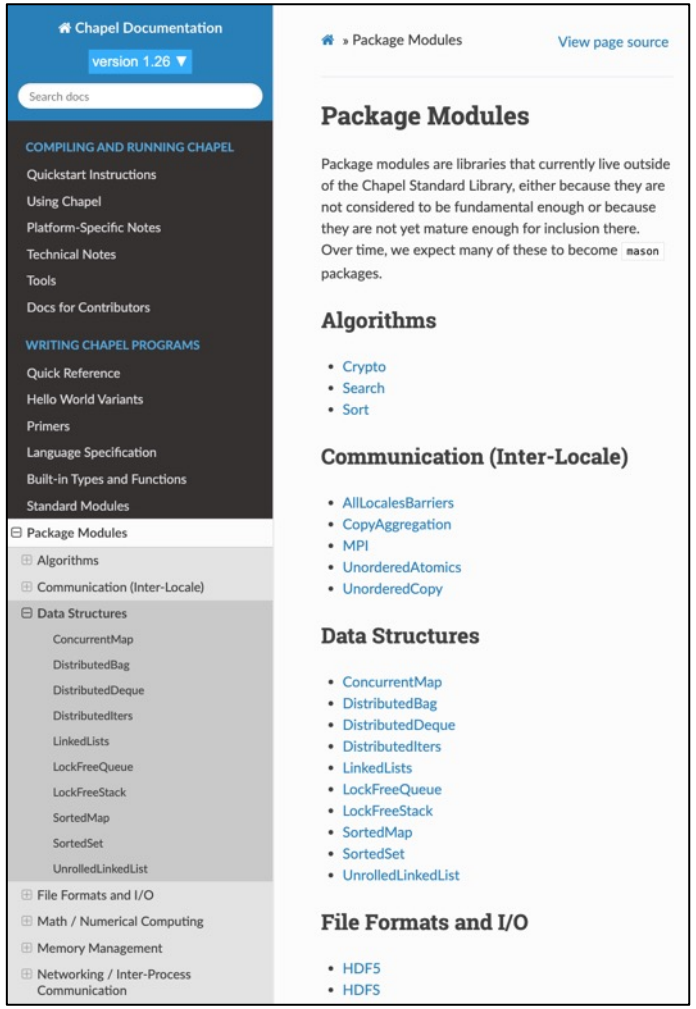




DOCUMENTATION UPDATES

Documentation Index

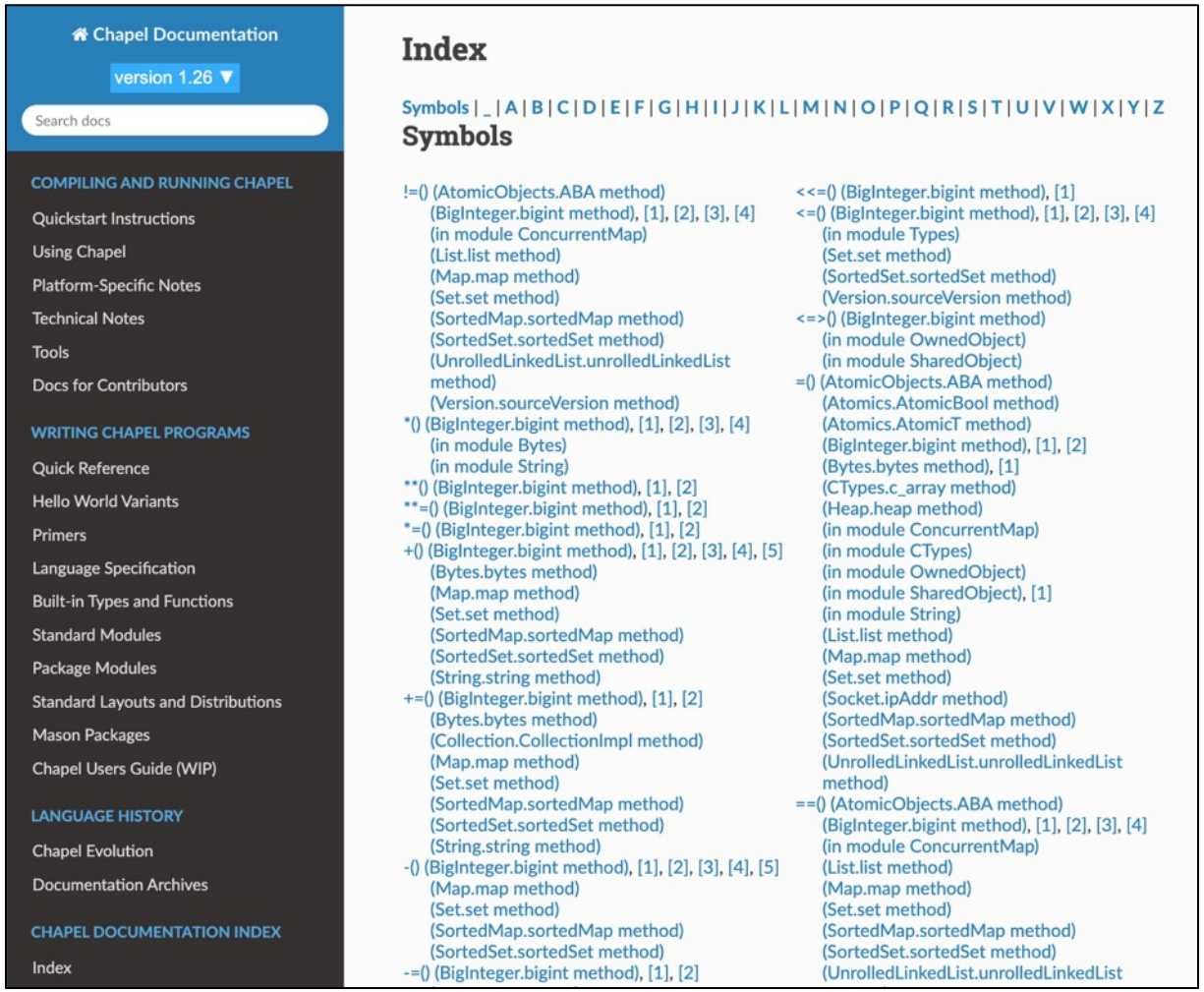
Background: Online docs have an index, but it's been somewhat difficult to find

- linked at the bottom of some pages, but not most

This Effort: Added it to the sidebar

Next Steps:

- Improve quality, utility of index
- Restore index entries to the language specification
- Support distinct indexes for spec, modules, etc.?



STATUS AND NEXT STEPS

DOCUMENTATION UPDATES

Status and Next Steps

Status:

- Documentation continues to improve in organization, quality, utility

Next Steps:

- Merge remaining “built-in types and functions” sections into the language specification
- Continue improving and refining contributor documentation and indexes

OTHER DOCUMENTATION IMPROVEMENTS

OTHER DOCUMENTATION IMPROVEMENTS

For a more complete list of documentation changes and improvements in the 1.25.1 and 1.26.0 releases, refer to the following sections in the CHANGES.md file:

- ‘Documentation’
- ‘Example Codes’


THANK YOU
https://chapel-lang.org
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