

# SBML Test Suite: *The Next Generation*

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# The first generation

- Developed by Andrew Finney circa 2004-2005
- Architecture:
  - ◎ Many test cases organized by theme into directories
  - ◎ Drivers: shell scripts + awk scripts
  - ◎ Documentation was on sbml.org wiki
- Procedure for users:
  - ◎ Download test suite
  - ◎ Write shell script wrappers
  - ◎ Run locally, get pass/fail result for all cases
- Drawbacks:
  - ◎ Scalability issues (file structure)
  - ◎ Usability issues (shell + awk)
  - ◎ Incomplete coverage of SBML features

# The next generation

- Goal is to improve all aspects & add new features
  - ◎ Complete coverage of SBML
  - ◎ Reorganized file structure
    - Scalable — easily extensible to more cases
    - Flat list of files rather than named directories + named files
      - “Tags” inside case files indicate various features
      - Plain text tags = searchable using grep
  - ◎ Both online & downloadable versions
    - Portable driver program — not based on shell + awk scripts
  - ◎ Massive user-friendliness improvements
  - ◎ Provide links between SBML specifications & test cases
  - ◎ Better documentation
  - ◎ Currently semantic only — but can easily add syntactic cases too
    - (Open question: do people want that?)