

Bioc Technical Advisory Board Minutes

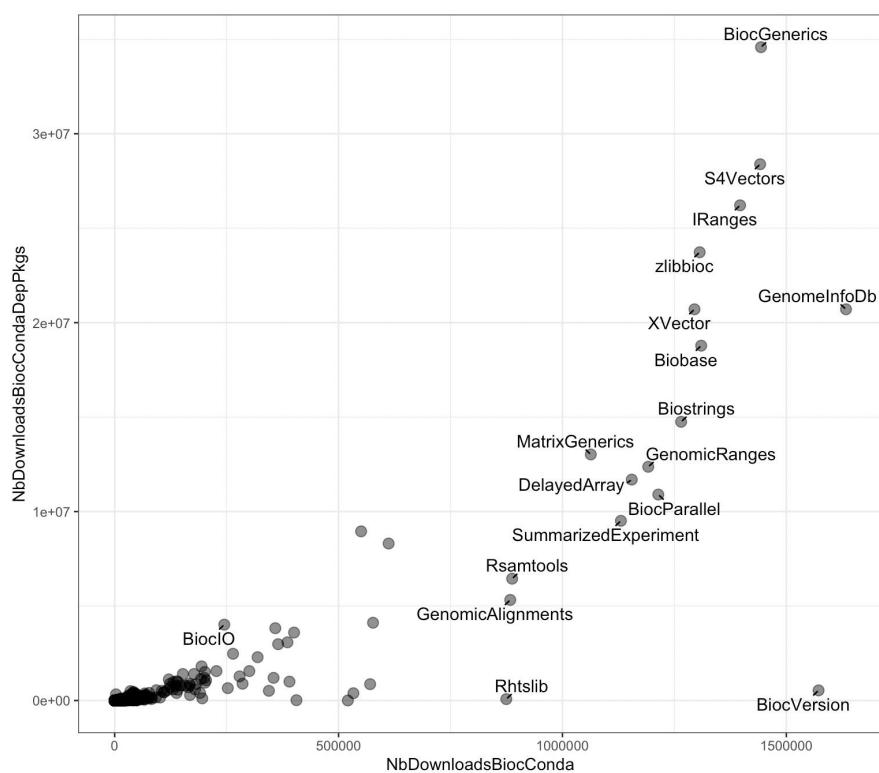
1 December 2022

Attending: Vincent Carey, Sean Davis, Hervé Pagès, Lori Shepherd, Robert Shear, Michael Love, Laurent Gatto, Charlotte Soneson, Marcel Ramos, Stephanie Hicks, Alexandru Mahmoud, Kasper Hansen, Davide Risso, Rafael Irizarry

Regrets: Wolfgang Huber, Levi Waldron, Robert Gentleman, Aedin Culhane, Shila Ghazanfar

:03 - :10 Approval of [prior minutes](#); welcome to new Core Dev Robert Shear (DFCI).

- Quiz question: who maintains the named packages? [Graphic source](#).



when attempting to render to HTML in this way, but within a recent RStudio instance, the knit to rjournal web button succeeds.

:14 - :15 Governance and possible replacement of Robert Gentleman seat with an invited working group member.

:15 - :20 Website working group formed.

- Has anyone tried [cranlike](#)?
- Initial meeting: Decide on priorities and work towards smaller goals rather than complete initial redesign.
 - Priority is landing page redesign - too much information currently.
 - Functionality/search based on biocViews.
 - Better searchable site (eg. most recent first, sub searches and filters).
Suggestion to exchange notes with Mike Smith, author of <https://code.bioconductor.org/search>.
 - Focus on release (potentially have a separate domain for devel) - especially for new users, how to get started.
 - The website should serve the wide range of users.

:20 - :23 Hacktoberfest (summary by Charlotte).

- [Hacktoberfest](#) concept: Have 4 pull/merge requests accepted between October 1 and October 31 to complete Hacktoberfest. The first 40,000 participants (maintainers and contributors) who complete Hacktoberfest can elect to receive one of two prizes: a tree planted in their name, or the Hacktoberfest 2022 t-shirt.
- [Slack announcement](#).
- Two meetups were held (Kevin & Kozo).
- [PRs for the bioc-project lesson in the Carpentries incubator](#) (please feel free to contribute as well!). Having well-defined issues in the GitHub repository is very helpful in order to solicit contributions (also unit tests).
- [Blog post](#) about awesome lists.

:23 - :40 Common classes and endorsed classes (thanks to Laurent Gatto for these details):

- Working group:
<http://workinggroups.bioconductor.org/currently-active-working-groups-committees.html#recommended-classes-and-methods>
 - Current members: Lori Shepherd (lead), Vince Carey, Laurent Gatto, Johannes Rainer.
 - Invite: Lluis Revilla (has asked about this on slack) and Hervé Pagès.
 - Advertise on the bioc-devel mailing list and slack.
 - New WG repo: <https://github.com/Bioconductor/BiocClassesWorkingGroup>
- Discussion:
 - What are the 'official' classes
(<https://contributions.bioconductor.org/important-bioconductor-package-developer-features.html#commonclass>)?

- To what extent should these be enforced during package review? "In general, a package will not be accepted if it does not show interoperability with the current Bioconductor ecosystem."
 - If not strictly enforced, at least require a wrapper function to convert to these?
 - Procedure to establish a new 'official' class.
- Comments:
 - Strict enforcement may not be a good idea (new classes/innovation is needed at times). However, in many cases existing classes are enough.
 - Encourage knowledge of/enhancement of existing classes.
 - Articulate principles. Why is e.g. SummarizedExperiment important/valuable? Understand benefits obtained by using existing classes.
 - Many successful innovations still inherit from existing classes.
 - Possible use-case: BiocSet vs GSEAbase vs ... for gene sets and enrichment analyses.
 - Many submissions using data frames - could often use GRanges or other core classes instead.
 - If a package is not using any of the Bioconductor classes, why submit to Bioconductor (and not CRAN)?
 - Hard to know the long-term value of a package at submission time.
 - Not just about classes, also about using the infrastructure/project in general.
 - Think about the class system - why don't people use them? Need to make sure that the value is clear - what are the benefits?
 - "glossy" - why be part of Bioconductor in general? What do you get out of coming into the system.

:40 - :45 Strictness of R CMD check/BiocCheck "--as-cran" – various remarks from Henrik Bengtsson.

- Relevant slack posts/GitHub issues:
 - <https://community-bioc.slack.com/archives/CLUJWDQF4/p1601057413025000>
 - <https://community-bioc.slack.com/archives/CEQ04GKEC/p1622069560041900>
 - <https://community-bioc.slack.com/archives/CEQ04GKEC/p1656372029195499>
 - <https://community-bioc.slack.com/archives/CEQ04GKEC/p1666571545883419>
 - <https://community-bioc.slack.com/archives/CEQ04GKEC/p1666617812557399>
 - <https://community-bioc.slack.com/archives/CLUJWDQF4/p1584493059086500>
 - <https://github.com/Bioconductor/BBS/issues/242>
 - <https://github.com/HenrikBengtsson/Wishlist-for-R/issues/16>
- Documentation of R CMD check --as-cran:
 - <https://cran.r-project.org/doc/manuals/r-devel/R-ints.html#Tools>
- Most checks are already in place on the build machines.
- Shared R installation - packages can pass even if they don't declare all dependencies used in vignettes, tests etc, if some other package declared the dependency. Want to avoid that - ask R CMD check that tests, vignettes etc can be run with the declared dependencies. Enable for the devel branch only for now. May not work properly on Windows (need to test).

- The SPB manually sets many environment variables on submission (<https://github.com/Bioconductor/packagebuilder/blob/master/check.Renviron>).

:45 - :47 Should we submit a tutorial to ISMB/ECCB 23-27 July 2023 in Lyon, France (BioC2023 is 2-4 Aug): <https://www.iscb.org/ismbeccb2023-submissions/tutorials>

- Part of effort to reach out to e.g. the scverse team (maybe independently of tutorial - something like a retreat more effective?)
- Virtual tutorial is a possibility.
- Joint tutorial or satellite meeting to get groups together across languages.

:47 - :60 Large data resources: contribution and distribution best practices - OSN - Imaging/Zarr/TileDb.

- Do we want to go into the image analysis of very large-scale imaging data? Technology dependent, lots of engineering involved.
- Keep working on resources for describing best practices of analysis of large-scale data - show that Bioconductor is applicable in the area.
- Beth Cimini (Broad) will be a keynote at BioC2023 and is interested to hear how Bioc wants to integrate with image analysis pipelines. Learn from people working in the field.
- Some efforts are already being done to make large imaging data available (Ludwig Geistlinger). Also CZI is working on making data open.