



ELIXIR/GOBLET/GTN hackathon for Galaxy training material re-use

Organisers:

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Workshop description:

Dates: 3-day workshop, 22-24 May 2017

Location: University of Cambridge, hosted by ELIXIR-UK.

Audience: Open to all Nodes. A mix of invited participants (15), with relevant expertise who are actively involved in Galaxy development and/or Galaxy training, and an open invitation to other interested individuals (15) from all ELIXIR nodes (and if possible related to the ELIXIR use-cases) as well as the Galaxy community.

Registration

To ensure the hackathon is relevant for all participants, there is a selection procedure. Please register before March 31st, and preferably as soon as possible because finding (affordable) accommodation in Cambridge will become difficult close to the event.

To register your interest to join, please fill out this form:

<https://goo.gl/forms/Mb9qA9MNSQ2P5goN2>

We will get back to you as soon as possible concerning your admission.

Objectives:

- Build on an existing collection of Galaxy training materials (<https://github.com/galaxy-project/training-material>), which was initiated at the 2016 Galaxy Community Conference. Materials are currently available for several topics (including Genome annotation, RNA-seq, ChIP-seq, exome-sequencing, MethylC-seq and Galaxy Tool Development) with various degrees of completeness. During the workshop we will collate additional materials, including topics relevant to the ELIXIR use-cases, and ensure that, for each workflow, a minimum set of training materials is available, including slides, practical exercises, Docker containers, and Galaxy tours.
- Improve materials' annotations (introducing full BioSchemas compliance) and align them with existing ELIXIR efforts (linking to TeSS). During the workshop materials will be curated to ensure they are properly described, according to the ELIXIR/GOBLET guidelines, and BioSchemas compliant. Consequently the curation will enable materials to be discoverable via TeSS.
- Extend the existing "curated" dataset collection, currently stored in Zenodo (an example is available at: https://zenodo.org/record/60520#.WIYKGd_RbmE), and

assign DOI to individual datasets. Datasets which are suitable for training purposes are hard to find so we want to build a dataset collection that Galaxy trainers can tap in; the collection should include a variety of datasets, across several species.

- Increase the number of Docker/Virtual Machines available for easy installation of Galaxy training environments. We will focus on: (i) specific pipelines for which containers currently do not exist, (ii) workflows that are of interest to the ELIXIR community and (iii) for which expertise will be available among the workshop participants.
- Explore the feasibility of developing a toolkit to facilitate plug in of different datasets in existing training material/workflows through a templating approach. Training materials are often developed for a particular use case and adapting them to a different use case can be time consuming. During the workshops we will brainstorm how to create a toolkit that will allow easy plug in of a curated dataset from the collection described above into existing training materials, creating modular, interchangeable training units.

Draft agenda

May 22nd (9:00 - 17:00)

Welcome and introductions (30')

Update on Galaxy features relevant for training (e.g. Galaxy Tours) (1h)

Curation strategy overview (1h)

Lunch

Presentation of the different activities (1h)

Break out groups:

- General training material curation
- Datasets
- Workflows portability: Docker/VM
- BioSchemas integration

May 23rd (9:00 - 17:00)

Recap of day 1

Break out groups (continued):

- General training material curation
- Datasets
- Workflows portability: Docker/VM
- BioSchemas integration

Lunch

State of the art

Break out groups (continued):

- General training material curation

- Datasets
- Workflows portability: Docker/VM
- BioSchemas integration

[Possible TeSS scraping at the end of the day]

May 24th (9:00 - 15:00)

Recap of day 2

Break out group:

- TeSS import/curation
- Galaxy Main integration
- Templating toolkit

Lunch

Summary & wrap up

Suggested accomodation

Event venue: Bioinformatics Training Room, CraikMarshall Building, Downing Site, University of Cambridge.
<https://www.google.co.uk/maps?hl=en-GB&q=Craik-Marshall+Building,+Downing+Site,+Cambridge&source=calendar>)

Based on accommodation within one mile of the venue on per person per night rate, sometimes including breakfast (please check). For general availability in the area, go to www.hotels.com, www.universityrooms.com or a general search online for bed & breakfasts in the area.

Best Western Gonville Hotel, Gonville Place, Cambridge, CB1 1LY Bed and breakfast around £129 per night <http://www.gonvillehotel.co.uk>

Arundel House Hotel, Chesterton Road, Cambridge, CB4 3AN
 Bed and breakfast, single around £85 per night; double or twin around £135 per night
www.arundelhousehotels.co.uk

Lensfield Road Boutique Hotel, 53 Lensfield Road, Cambridge, CB2 1EN Bed and breakfast for between £72 £98 per night. <http://www.lensfieldhotel.co.uk/>

Regency Guest House, 7 Regent Terrace Cambridge, England, CB2 1AA Bed and breakfast for £110
<http://www.regencyguesthouse.co.uk/>

Home from Home Guest House, 78 Milton Road Cambridge, England, CB4 1LA Bed and

breakfast £86 <http://www.homefromhomeguesthousecambridge.co.uk/>

Acorn Guest House, 154 Chesterton Road Cambridge, England, CB4 1DA Bed and breakfast £75

<http://www.acornguesthouse.co.uk/>

Jesus College Rooms (only available out of term time)

Bed and breakfast £69 <http://conference.jesus.cam.ac.uk/accommodation/accommodation/>

5 Chapel Street, 5 Chapel Street Cambridge, England, CB4 1DY Bed and breakfast £95

<http://5chapelstreet.com/>

Cambridge City Hotel, 20 Downing Street Cambridge, England, CB2 3DT Bed £158 (breakfast available)

<http://www.cambridgecityhotel.co.uk/>

Hotel Du Vin, 1519 Trumpington Street Cambridge, England, CB2 1QA Bed £155 (breakfast available) <https://www.hotelduvin.com/locations/cambridge/>

Royal Cambridge Hotel, Trumpington Street Cambridge, England, CB2 1PY Bed £116 (breakfast available)

<http://www.sjhotels.co.uk/cambridge>

Madingley Hall, Madingley, Cambridge, CB23 8AQ

Bed and breakfast between £70 100 per night

www.madingleyhall.co.uk

(This accommodation is nice but 3 miles outside Cambridge, so taxis will need to be used to get and out of Cambridge for the courses)

Southampton Guest House, 7 Elizabeth Way, Cambridge CB41DE

Bed and breakfast from £50 per night

www.southamptonguesthouse.com

(a little further away but a pleasant walk along the river and through Midsummer Common)