



Continuous monitoring of bioinformatics metrics

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SciLifeLab

NATIONAL GENOMICS INFRASTRUCTURE

MultiQC aggregates results from bioinformatics analysis across many samples into a single report file.

» Installation & Usage

```
pip install multiqc
cd my_data
multiqc .
```



MultiQC recursively searches files within target directories and builds a report from any log files that it recognises.

The report opens in any web browser and has lots of tools to help interpretation.

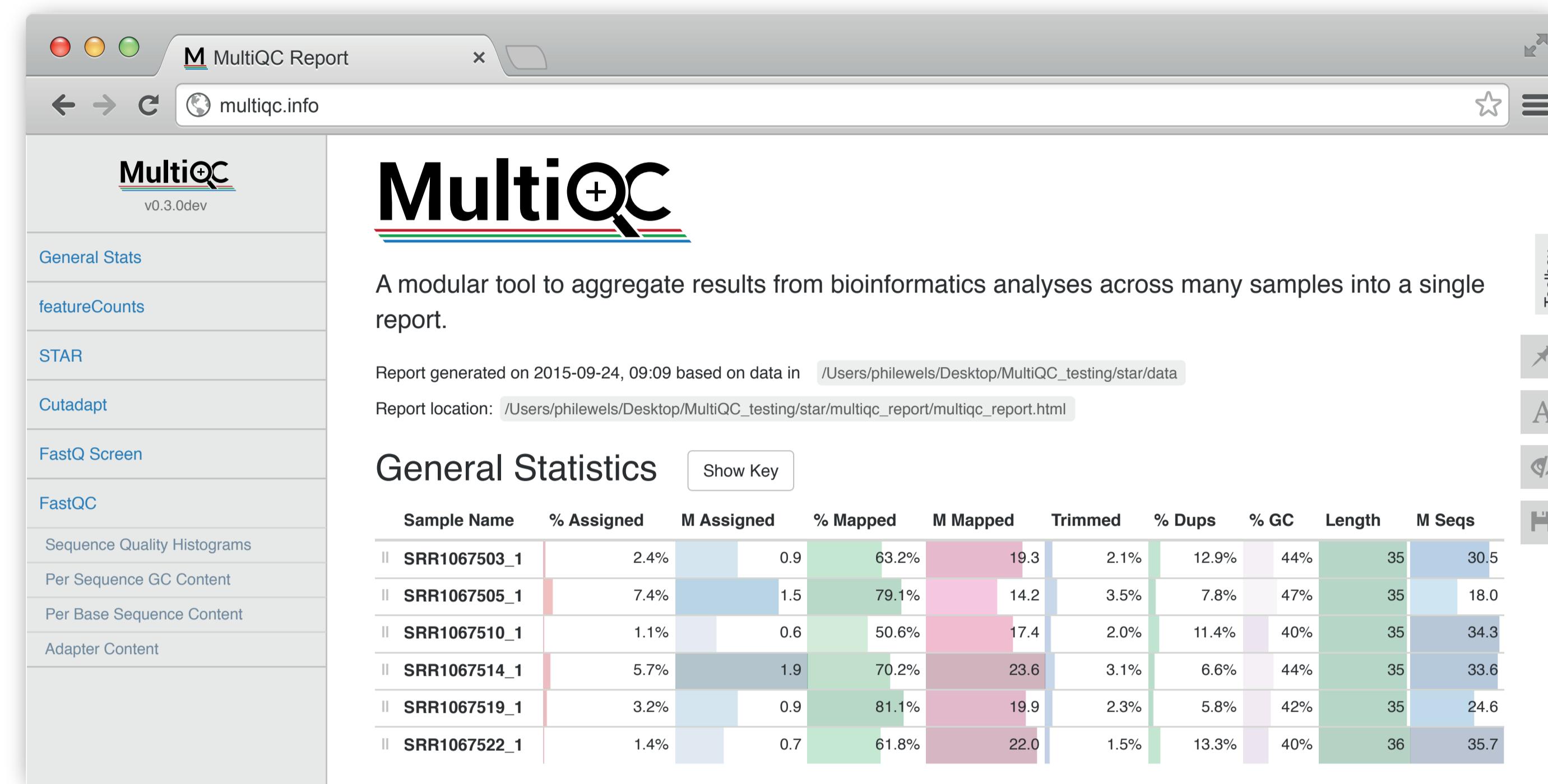
» Typical Use Cases

- █ Routine QC after running any analysis
- █ Final step in processing pipelines
- █ Comparing different tools / parameters

MultiQC is built using a plugin framework that makes customisation and extension simple.

» More Info & Examples

<http://multiqc.info>



MultiQC

A modular tool to aggregate results from bioinformatics analyses across many samples into a single report.

Report generated on 2015-09-24, 09:09 based on data in /Users/philewels/Desktop/MultiQC_testing/star/data

Report location: /Users/philewels/Desktop/MultiQC_testing/star/multiqc_report/multiqc_report.html

General Statistics

Sample Name	% Assigned	M Assigned	% Mapped	M Mapped	Trimmed	% Dups	% GC	Length	M Seqs
SRR1067503_1	2.4%	0.9	63.2%	19.3	2.1%	12.9%	44%	35	30.5
SRR1067505_1	7.4%	1.5	79.1%	14.2	3.5%	7.8%	47%	35	18.0
SRR1067510_1	1.1%	0.6	50.6%	17.4	2.0%	11.4%	40%	35	34.3
SRR1067514_1	5.7%	1.9	70.2%	23.6	3.1%	6.6%	44%	35	33.6
SRR1067519_1	3.2%	0.9	81.1%	19.9	2.3%	5.8%	42%	35	24.6
SRR1067522_1	1.4%	0.7	61.8%	22.0	1.5%	13.3%	40%	36	35.7

A typical MultiQC report. The General Statistics table ties together results from multiple programs, allowing you to see how different analysis steps affect the parameters of your data.

Multiple MultiQC reports

MegaQC collects data from multiple MultiQC runs. Unlike MultiQC, it's an active web-server, allowing you to interrogate your data over thousands of runs.

» Installation & Usage

```
pip install megaqc
megaqc initdb
megaqc run
```



Configure MultiQC with the URL and API key and it will automatically be upload data to MegaQC. You can also upload MultiQC JSON data files on the command line.

» Plot data across projects

Replicate MultiQC plots across all the samples you've ever processed. Use powerful filtering to find sample subsets.

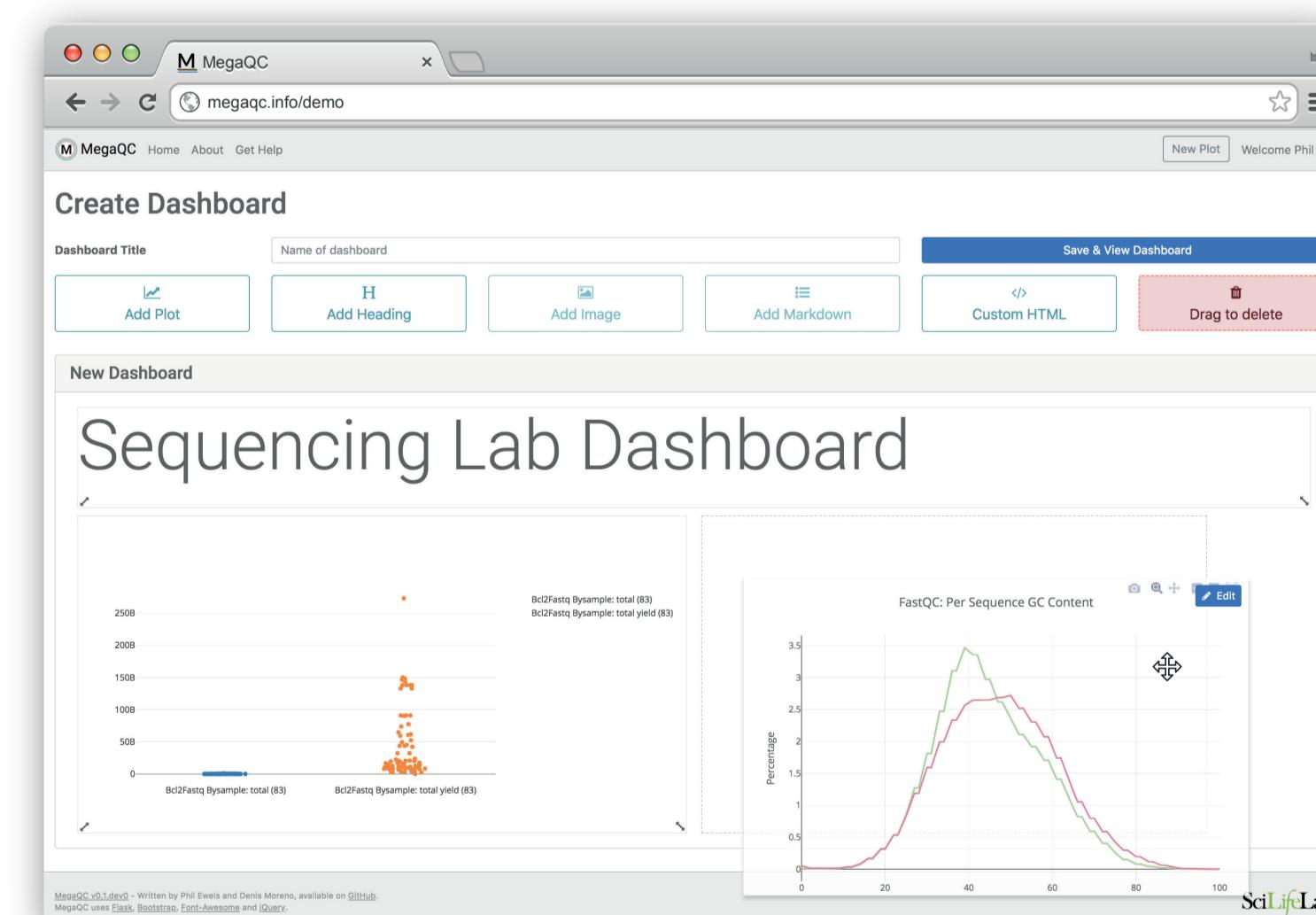
» Typical Use Cases

- █ Monitoring long-term trends
- █ Detecting outlier samples
- █ Creating dashboards with key metrics

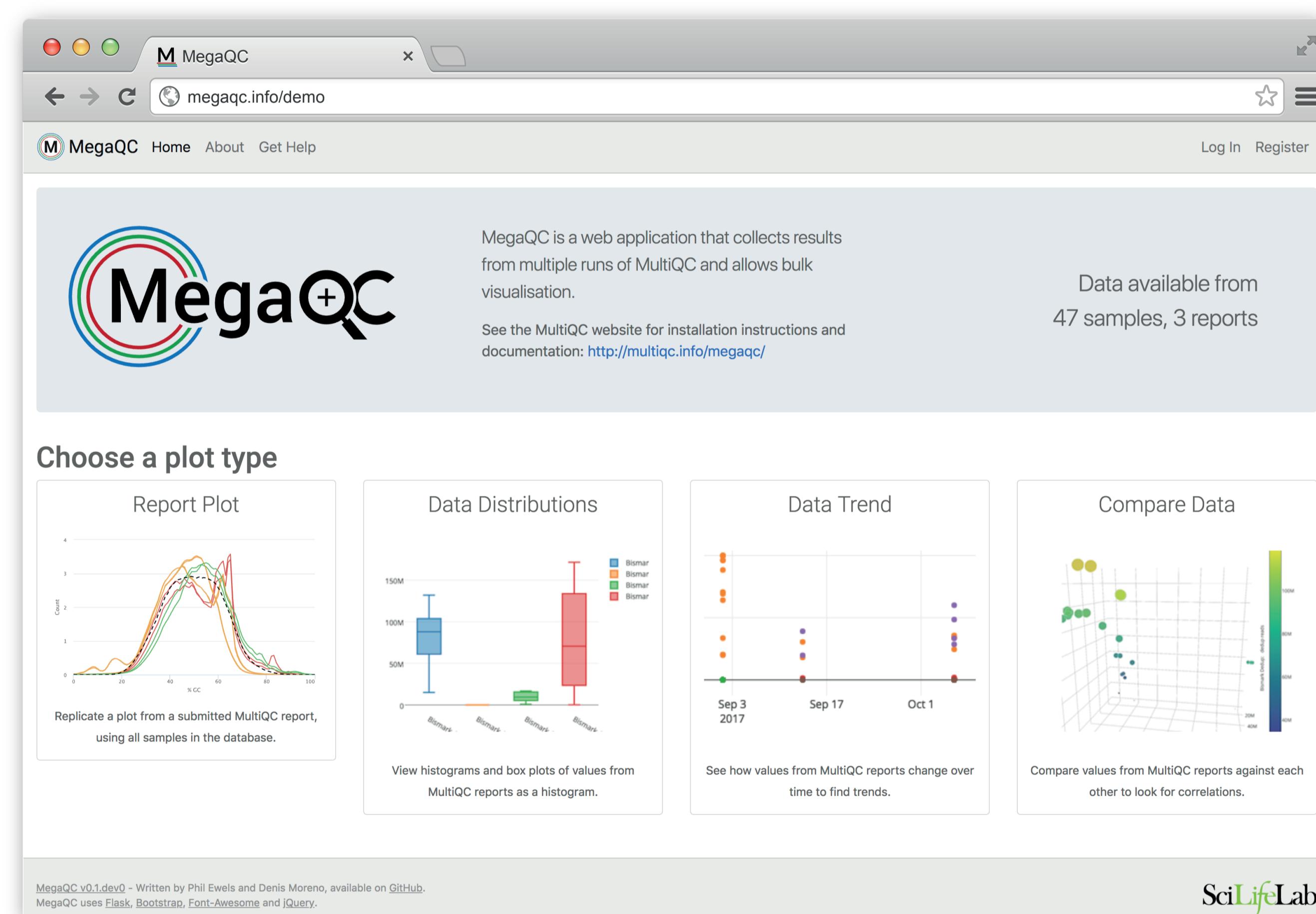
MultiQC is built using a plugin framework that makes customisation and extension simple.

» Build dashboards & monitor trends

A drag-and-drop dashboard interface makes it trivial to build dynamic web pages ideal for embedding in websites or showing on screens.

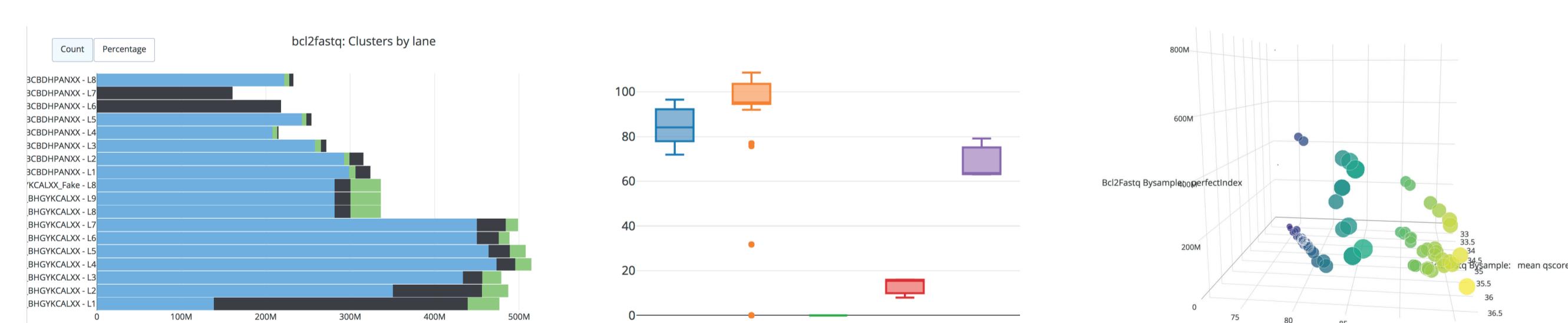


Drag and drop your favourite MegaQC plots into a dashboard screen for your lab or website.



The MegaQC homepage. Four types of plots are available - reproduction of MultiQC plots, distributions, trends over time and comparison of multiple generic metrics as a scatter plot.

» Visualise your data with multiple plot types



Replot complex graphs from MultiQC, visualise data distributions and look for correlations with multi-variable interactive 3D scatter plots.

» Built using open-source technologies

MegaQC is free and open-source, built using open frameworks and tools. Use and contribute on GitHub!

[GitHub ewels / MegaQC](https://github.com/ewels/MegaQC)

[python](#)

[Flask](#)

[SQLAlchemy](#)

[plotly](#)

[B](#)

[PostgreSQL](#)

[SQLite](#)

[unicorn](#)