Seamless Hackathon Dec 3, 2020

Sjoerd de Vries RPBS platform













Goals of the hackathon

- NOT: impress the audience with shiny web services (Seamless can incorporate existing web visualization libraries.)
- NOT: advertise every feature of Seamless and all you can do with it (macros, strong interoperability between tools, big data...)
- Getting to know Seamless, find out if it can help you with your daily work

Daily work in computational science

- Develop new scientific algorithms/functions (C++, Python, Fortran, ...)
- Combine scientific functions into scripts (Python, bash)
- Reproducible execution of scripts/programs (Docker, singularity, conda)
- Combine command-line programs into a workflow (bash, GNU make, SnakeMake, Common Workflow Language, Galaxy, NextFlow, ...)
- From command-line to web interface (Python, Galaxy, Mobyle)
- Interactive coding, data analysis, visualization and plotting (Jupyter, R Studio)

What Seamless aims to do

- Not to re-invent the wheel Good tools/languages exist already!
- Bring existing tools/languages together

 Express yourself using the tools/languages that you like

 Not being narrow in scope. CWL vs Jupyter vs Galaxy
- Make modification easy

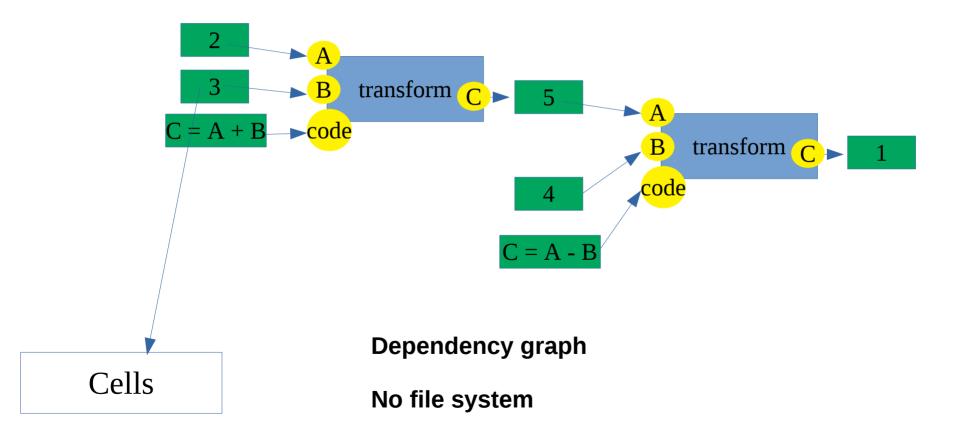
 The other half of computational science: application
 To stand on the shoulders of giants
 Interactive feedback
 Live collaboration

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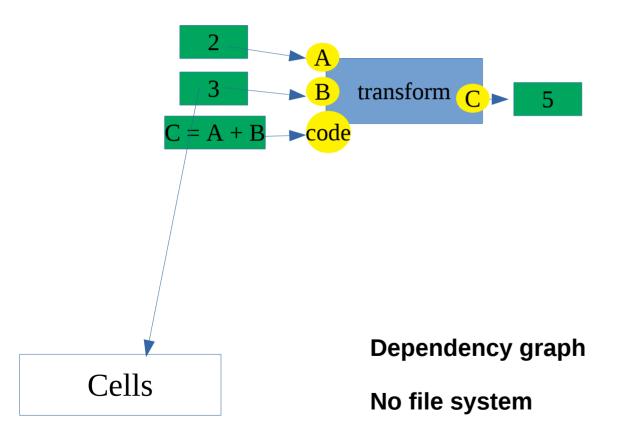
- NOT: impress the audience with shiny web services (Seamless can incorporate existing web visualization libraries.)
- NOT: advertise every feature of Seamless and all you can do with it (macros, strong interoperability between tools, big data...)
- Getting to know Seamless, find out if it can help you with your daily work
- Collaborative development of chem/bioinformatics protocols (interactivity, real-time feedback)

Seamless is beta software

What Seamless is



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