# GWS Recap

Auth & Auth & Auth

- pyvo 1.0 now does auth and has working examples for GAIA and CADC

- YouCat uploading tables to TAP, which requires good auth

- Auth has lots of challenges (pun intended):

  - OAuth2 is the standard, but uses the browser, which makes it hard for CLI apps

  - Group Management Service helps standardize how to find out if someone is a member of a group (in working draft, comments accepted)

  - Best practices for auth in general are still an open problem

  - CADC and GAIA use cookies, LSST does tokens

  - SecurityMethod needs more information to make it useful for being able to authenticate

GWS Recap

Science Platforms: More Platforms than Mario Bros

- Everyone is doing a science platform, look at the ADASS BoF for Science Platforms

- Deployment - some are doing Kubernetes, more are doing containers

- Auth is still a hard problem for science platforms

- Different interfaces

  - Remote desktop (ARCADE, DataCentral)

  - Jupyter notebooks (LSST, VO-CLOUD)

  - Web portals (everyone really)

GWS Recap
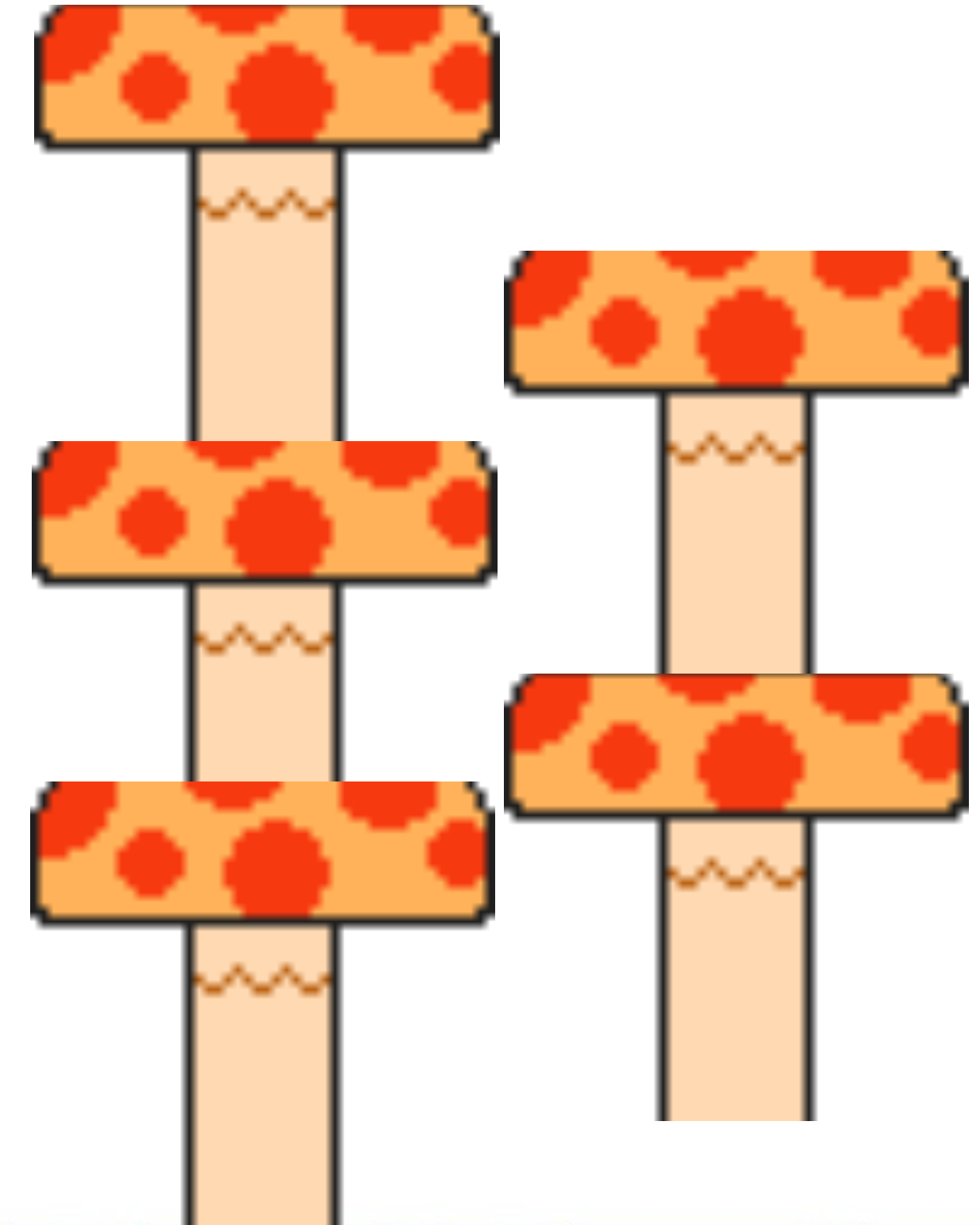
Future plans

- SSO 2.1/3.0 - New `SecurityMethod` with Attributes for finding the token or how to login

- Stimulate the contribution on the GMS WD from the GWS to proceed towards RFC. Email on the GWS list soon with open issues.

- GWS Telecons on Science Platforms or other suggested topics

- Looking to propose standards for Science Platforms at the telecons

  - Storage, execution, software description