Extend. Expand. Exemplify.

The SGCI team continues to offer its services AND brings you a new Center of Excellence to Extend Access, Expand the Community, and Exemplify Good Practices for CI through Science Gateways.

How to Position Your Globus Data Portal for Success: Ten Good Practices

Sandra Gesing, Kerk Kee, Sean Cleveland, Annelie Rugg and Steve Brandt

May 8, 2024

SGX3 | SGCI

Gateway Ambassadors

Members of a professional community

- Community activities
  - learning from peers
  - sharing information
- Ambassador activities
  - meeting with individuals
  - hosting awareness sessions

"We like to bring together people from radically different fields and wait for the friction to produce heat, light and magic. Sometimes it takes a while."

What This Talk is About

Recommendations

What This Talk is NOT About

A Fully Proven Recipe for Success

INGREDIENTS:

☑ the ability to fight the urge of ordering a takeaway every night

☑ a dash of patience

☑ a decent set of cutlery and crockery

☑ a spoonful of can-do attitude

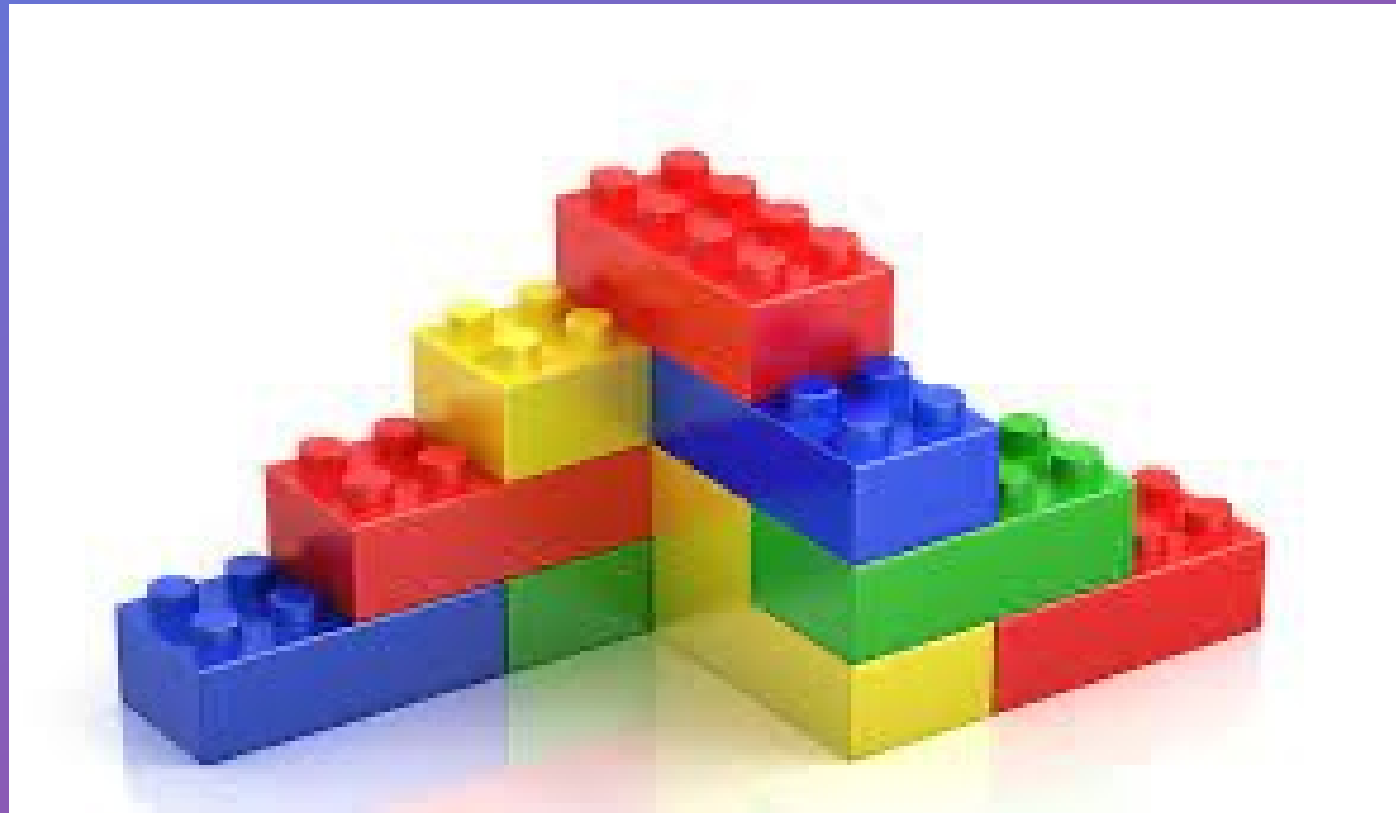☑ a sprinkle of 'trust the process'

SGX3 | SGCI

Two Groups of Recommendations

- Five good practices for technical design
- Five good practices for social organization of science gateways

Recommendation 1

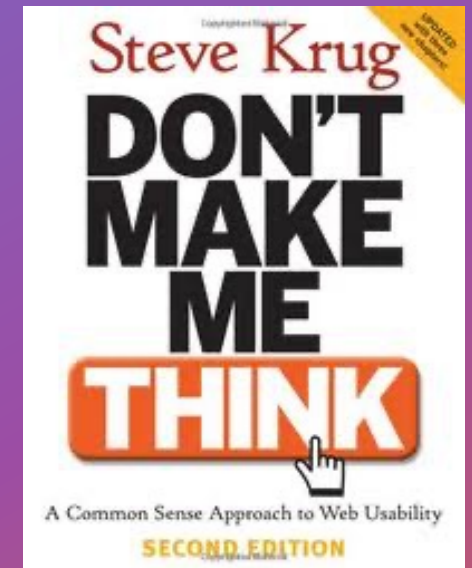Adaptability, Extensibility, and Scalability

SGX3 | SGCI

Recommendation 2

Usability and Accessibility

"After all, usability really just means that making sure that something works well: that a person ... can use the thing - whether it's a Web site, a fighter jet, or a revolving door - for its intended purpose without getting hopelessly frustrated."
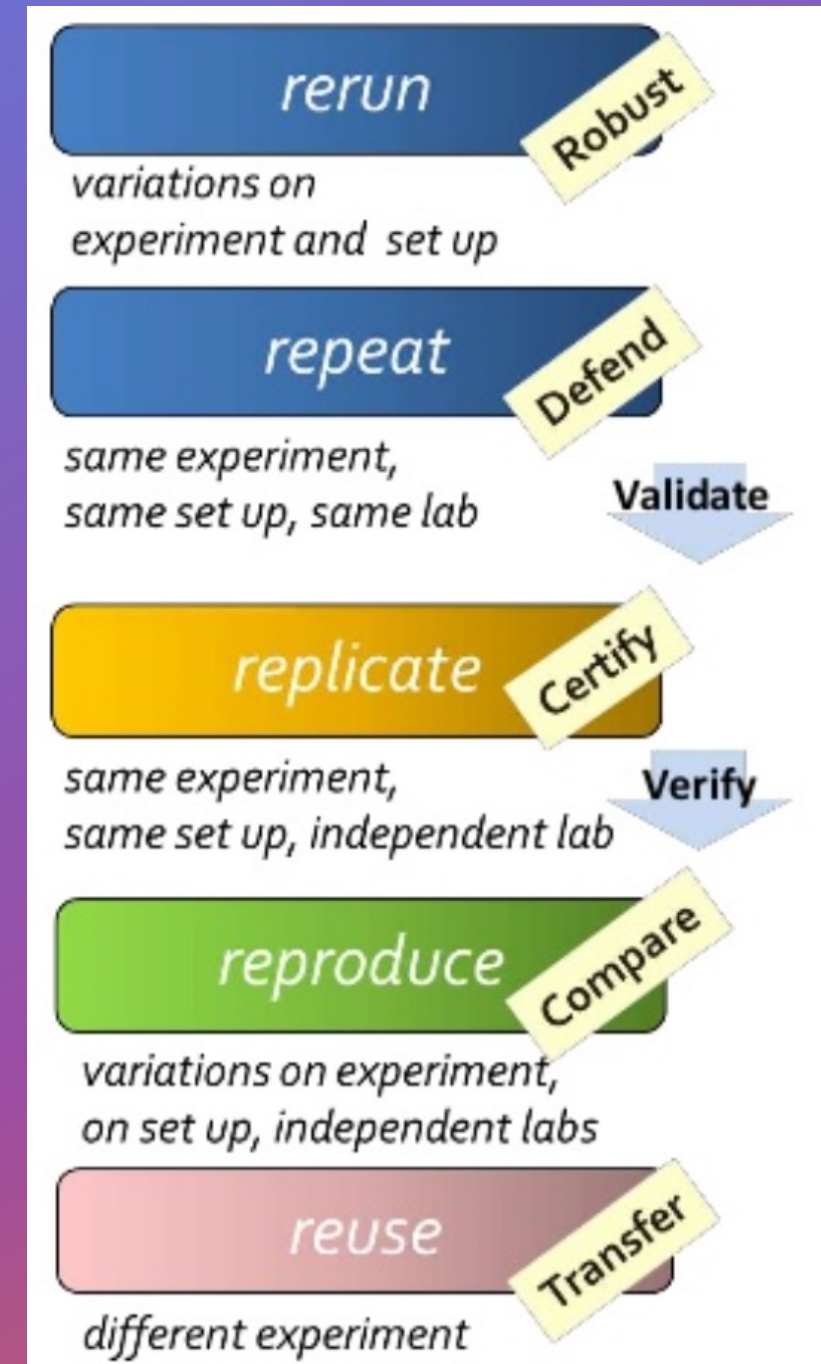
Steve Krug in "Don't make me think!:

A Common Sense Approach to Web Usability", 2005

SGX3 |SGCI|

Recommendation 3

Reproducibility

"Reproducibility means obtaining consistent computational results using the same input data, computational steps, methods, code, and conditions of analysis. Replicability means obtaining consistent results across studies aimed at answering the same scientific question, each of which has obtained its own data."

https://phys.org/news/2019-05-replicability-science.html

Recommendation 4

FAIR compliant

- Findable
- Accessible
- Interoperable
- Reusable

The FAIR Guiding Principles for scientific data management and stewardship

Mark D. Wilkinson, Michel Dumontier, [...] Barend Mons ✉

ⓘ An Addendum to this article was published on 19 March 2019

Abstract

There is an urgent need to improve the infrastructure supporting the reuse of scholarly data. A diverse set of stakeholders—representing academia, industry, funding agencies, and scholarly publishers—have come together to design and jointly endorse a concise and measureable set of principles that we refer to as the FAIR Data Principles. The intent is that these may act as a guideline for those wishing to enhance the reusability of their data holdings. Distinct from peer initiatives that focus on the human scholar, the FAIR Principles put specific emphasis on enhancing the ability of machines to automatically find and use the data, in addition to supporting its reuse by individuals. This Comment is the first formal publication of the FAIR Principles, and includes the rationale behind them, and some exemplar implementations in the community.

SGX3 SGCI

Recommendation 5

Standards-based, Priorities and/or Maintainability

Recommendation 6

Evangelism

Recommendation 7

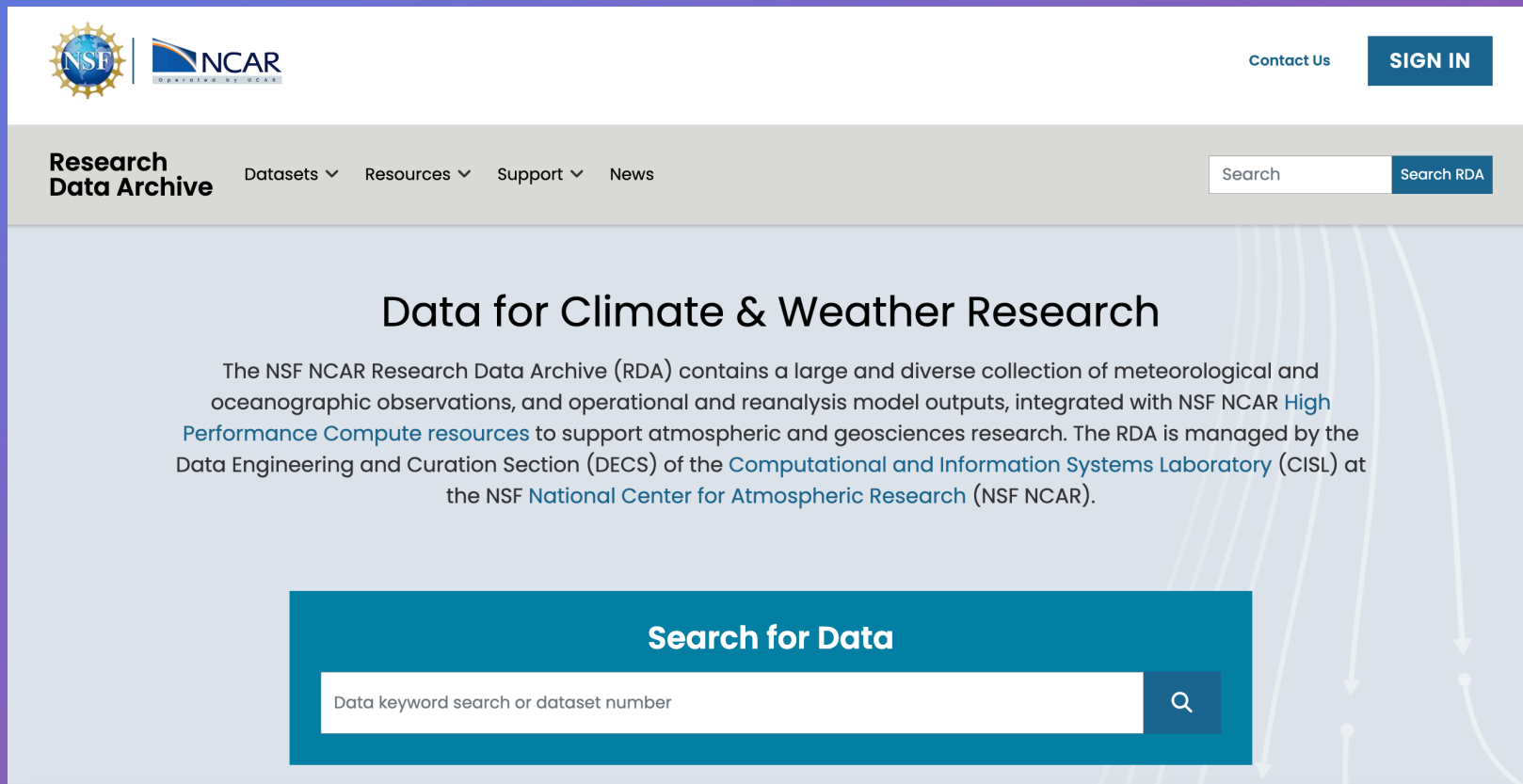Community and Advocacy - Funding/Stakeholder (Institutions, Communities) Buy-in

Recommendation 8

Visibility and Awareness

SGX3 |SGCI

Recommendation 9

Use cases and success stories

Recommendation 10

Documentation and Onboarding Resources

Outlook

10 Recommendations What NOT to Do

Thank You

https://sciencegateways.org/

Extend. Expand. Exemplify.

The SGCI team continues to offer its services AND brings you a new Center of Excellence to Extend Access, Expand the Community, and Exemplify Good Practices for CI through Science Gateways.

SGX3   SGCI