



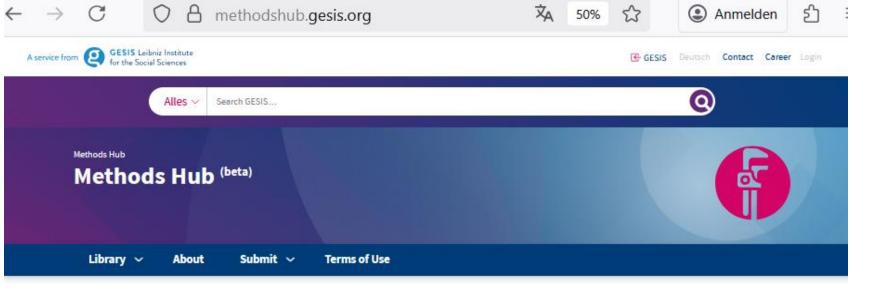


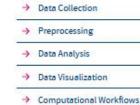
GESIS Methods Hub

Chung-hong Chan, Fakhri Momeni, Taimoor Khan and Felix Münch









Methods Hub

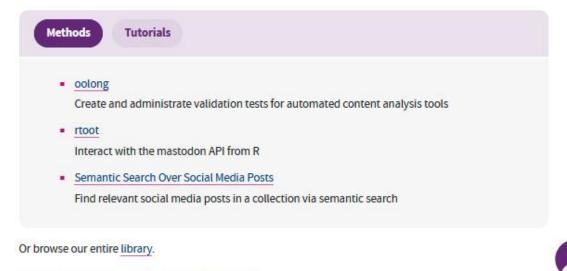
Exploring computational methods for your social science research?

The Methods Hub is your starting point. As an open community portal, we bring together practical tools, tutorials, and interactive environments that help you explore and apply computational approaches—from data collection and preprocessing to analysis, results visualization and validation—to solve your social science research problems. Whether you're just getting started or looking to expand your toolkit, you'll find resources designed to support your research every step of the way.

The computational methods gathered from our community are presented from a social science perspective, highlighting their relevance and applicability to the field. Each methods' page connects to various additional resources such as the code and documentation for reproducibility, related datasets for replicability, and tutorials for learning more about using the method.

Curious what it looks like?

Check out the most recent contributions:



Want to try it yourself?

Many of our methods and tutorials support interactive environments, that allow you to explore and run them

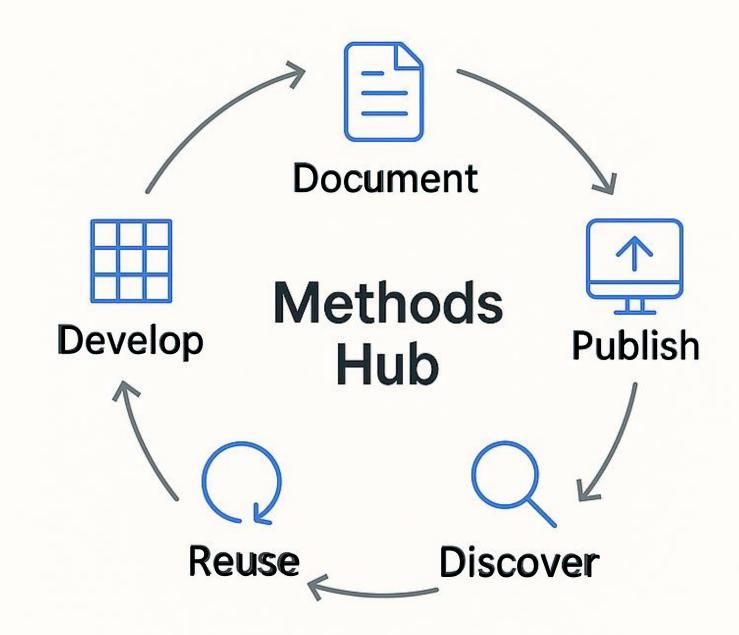


Methods Hub

A GESIS initiative for discoverable reusable and reproducible research methods



What is the Methods Hub?





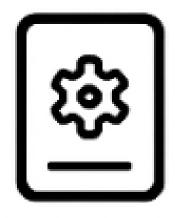


For Method Users



Search and Explore

what it does, who built it, which use cases it fits



Apply in Practice

Get clear guidance on implementation



Cite properly

Guidance on citation



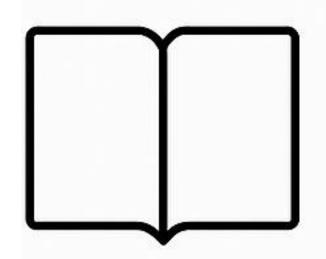
Learn from Tutorials

Step-by-step guides to reproduce or adapt the method



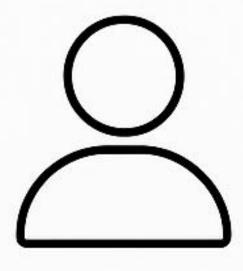


Reuse with Confidence



Link to the publications

See the research paper that use or describe the method



Contributor Attribution

Know who developed or contributed to it



Contextual Unterstanding

Understand how the methods fits in the research ecosystem





For Method Developers: Share, Cite, Reuse













Trusted through metadata & documentation



Make your methods discoverable, reproducible, and reusable by design.





Behind the Scenes: Curation & Support



Review Workflows Maintain quality



Documentation Standards Keep content consistent



Interoperability Link to research infrastructure



Onboarding Support new contributors



Searchable &



Connected to Discoverable Research Networks



High-Quality & Reliable





FAIR by Design



Findable

Each method richly described using standar-dized metadata



Accessible

Methods accessible from **GESIS** Search



Interoperable

Methods interoperable with other research tools



Reusable

Clear documentation and licensing ensure method reusability









methodshub.gesis.org

(debut: End of June)

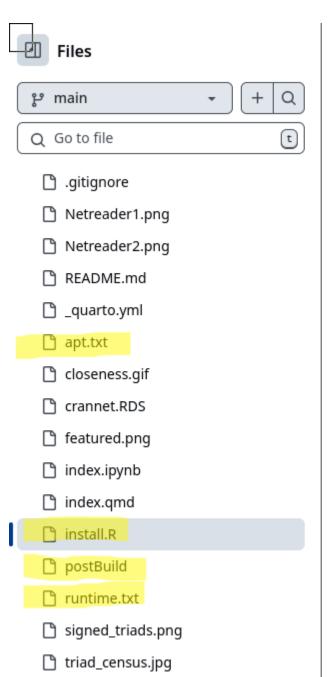
```
្ខ main ▾
                  MH_netAnaR / index.qmd
                                                                                                                                                       Raw 🕒 🕹
                 1106 lines (845 loc) · 47.6 KB
Code
        Blame
 203
         lies somewhere in between but as the number of nodes increases, we'd expect the density to decrease and the network
 204
         becomes quite sparse.
 205
 206
         A **shortest path** is a path that connects two nodes in a network with a minimal number of edges. The length of a shortest path is called the **distance** be
         ```{r shortest_path}
 207
 208
 shortest_paths(greys, from = "Alex Karev", to = "Owen Hunt", output = "vpath")
 209
 210
         ```{r greys_shortest_path, echo=FALSE,fig.width=12,fig.height=8}
 211
 212
         E(greys)$epath <- FALSE
 213
         E(greys)$epath[as.integer(shortest_paths(greys, from = "Alex Karev", to = "Owen Hunt", output = "epath")$epath[[1]])] <- TRUE
 214
 215
         ggraph(greys, "stress", bbox = 10) +
 216
             geom_edge_link0(aes(color = epath, width = epath), show.legend = FALSE) +
 217
             geom_node_point(shape = 21, aes(fill = sex), size = 5, show.legend = FALSE) +
 218
             geom_node_text(aes(label = name), repel = TRUE) +
 219
             scale_fill_manual(values = c("grey66", "#E8813A", "#4D189D")) +
 220
             scale_edge_color_manual(values = c("grey66", "firebrick3")) +
             scale_edge_width_manual(values = c(0.5, 1.5)) +
 221
 222
             theme void()
 223
 224
```

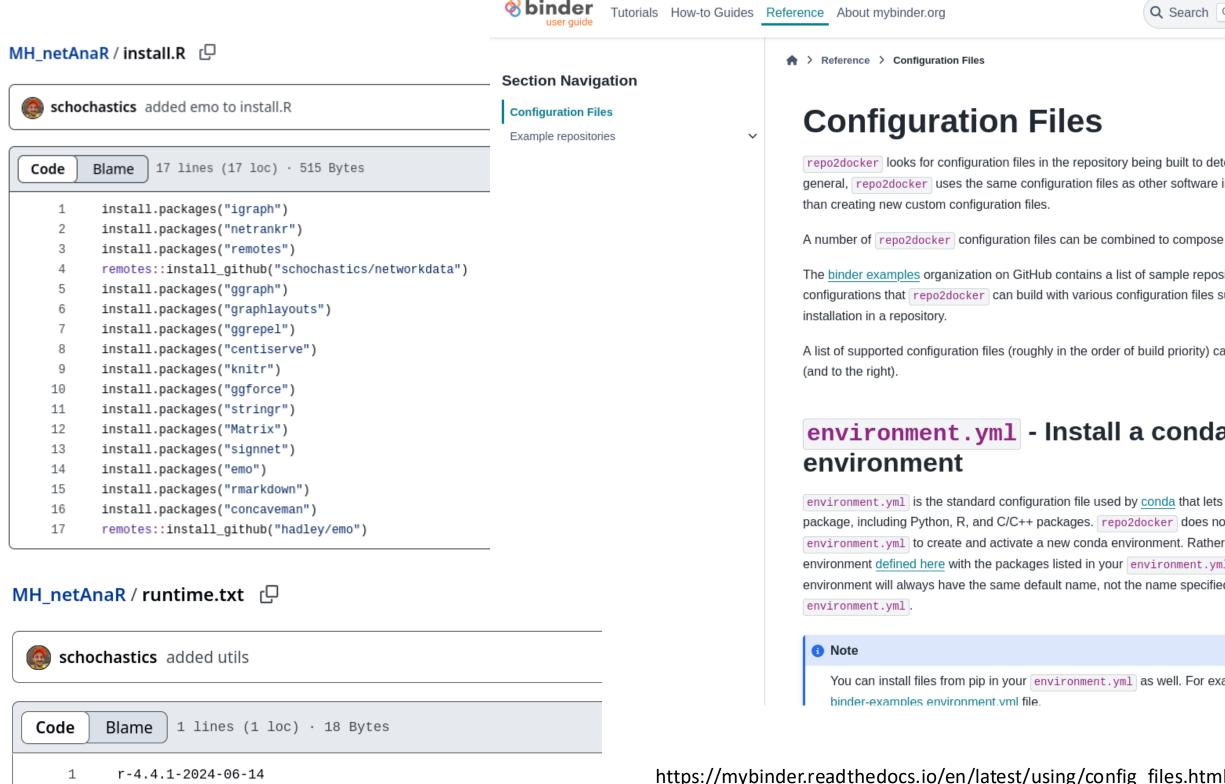


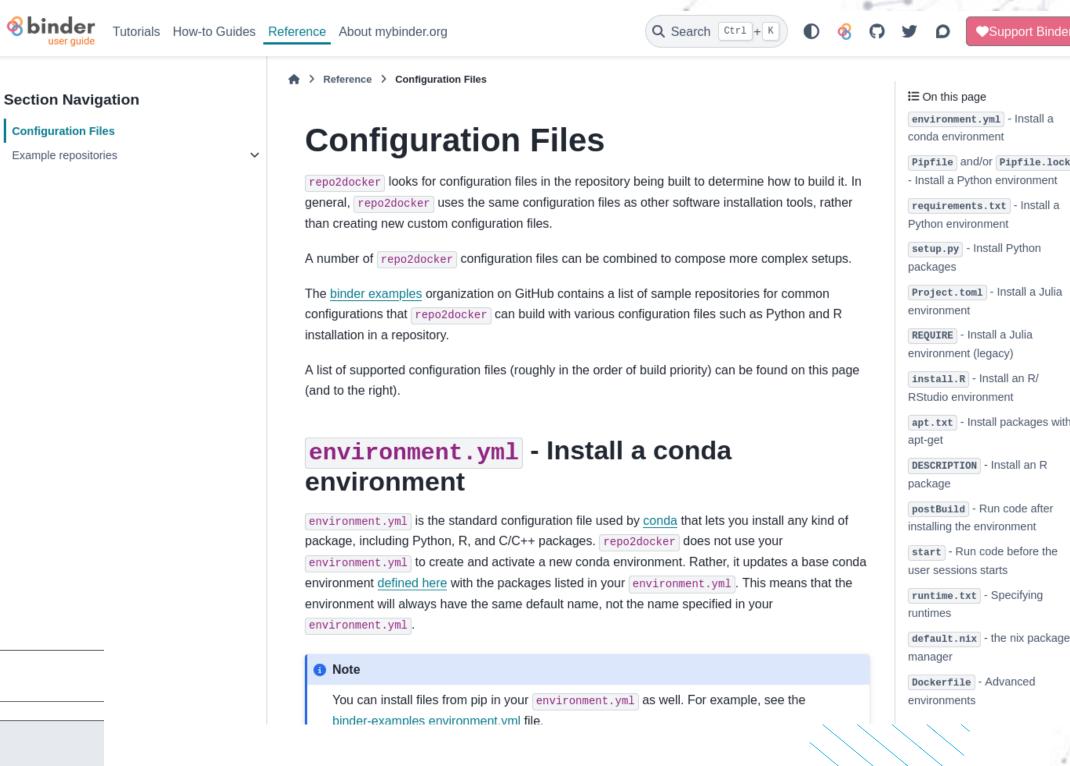


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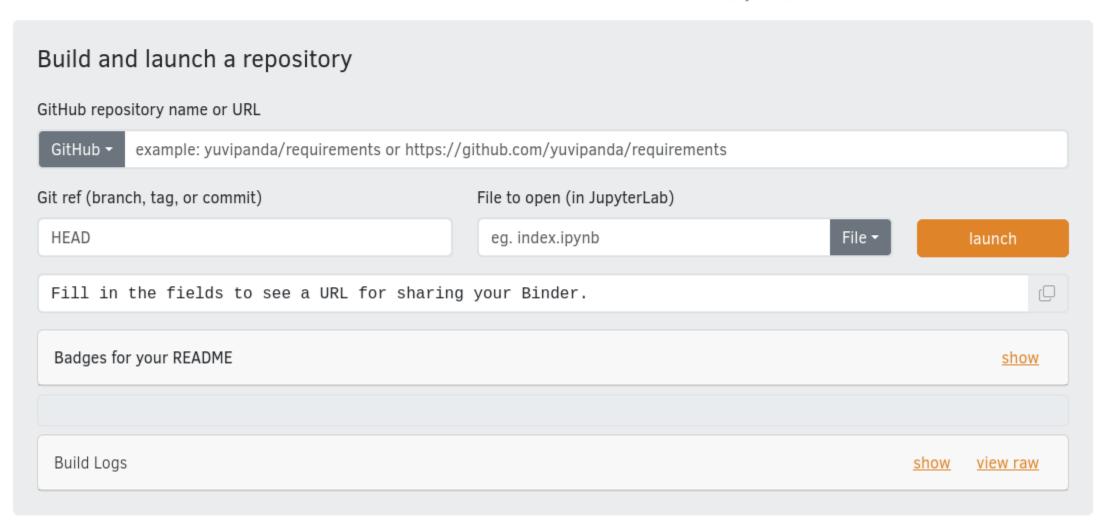
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Turn a Git repo into a collection of interactive notebooks

Have a repository full of Jupyter notebooks? With Binder, open those notebooks in an executable environment, making your code immediately reproducible by anyone, anywhere.

New to Binder? Get started with a Zero-to-Binder tutorial in Julia, Python, or R.



https://mybinder.org/



