



Read/write .h5ad files

Read and write **.h5ad** files natively in R

No Python environment management needed

AnnData object in R

R representation of **AnnData** objects

In-memory and HDF5 backends extendable to other formats (i.e. Zarr)

Convert to/from R objects

Convert between **AnnData** and **Seurat** or **SingleCellExperiment**

Directly write **.h5ad** files from R objects

Python

1. A collaborator provides a **.Rds** file containing a **Seurat** object

5. Read it into Python as an **AnnData**

6. Process the data with **scanpy**

7. Save the **AnnData** as a **.h5ad**

11. Distribute the **.h5ad** file or continue the analysis

Disk



R

2. Read it into R as a **Seurat** object

3. Perform quality control with **Seurat**

4. Save the **Seurat** object as a **.h5ad** file

8. Read it into R as a **SingleCellExperiment**

9. Perform analysis with **Bioconductor**

10. Save as **.h5ad**

