

Delivering materials with little friction

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Set up an RStudio Cloud workspace







Files (workshop materials) in a particular folder structure Computing environment



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Two challenges







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Packaging things up

workshop materials





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Getting materials off of GitHub

- Fork + Clone (if you know what that means)
- Download zip + click on .Rproj to launch
- usethis::use_course()



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File structure for example apps



For teaching deployment



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For avoiding redundancy







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don't start like this

- Install R
- Install RStudio
- Install the following packages:
 - shiny

. . .

- tidyverse
- Load these packagesInstall git



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start like this

Go to <u>rstudio.cloud</u>
Log in

> hello R!



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😳 - Addins -
       💽 🖣 🚭 🗣 🔚 🔚 🔚 🔚 🕐 Go to file/function
         Console Terminal ×
         ~100
        R version 3.5.0 (2018-04-23) -- "Joy in Playing"
        Copyright (C) 2018 The R Foundation for Statistical Computing
        Platform: x86_64-apple-darwin15.6.0 (64-bit)
        R is free software and comes with ABSOLUTELY NO WARRANTY.
        You are welcome to redistribute it under certain conditions.
        Type 'license()' or 'licence()' for distribution details.
          Natural language support but running in an English locale
        R is a collaborative project with many contributors.
        Type 'contributors()' for more information and
         'citation()' on how to cite R or R packages in publications.
        Type 'demo()' for some demos, 'help()' for on-line help, or
         'help.start()' for an HTML browser interface to help.
        Type 'q()' to quit R.
         >
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Why not local IDE?

- Reduce friction at the beginning of a workshop
- Avoid local installation
- Standardize computing environment for all participants



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Why cloud?

Why RStudio Cloud?

- Does not require server setup
- Features designed specifically for teaching



R



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Workspaces

when you create an account on RStudio Cloud you get a workspace of your own - projects you create here are public

you can add a new workspace and control its permissions - projects you create here can be public or private



Access



Invitation required

Add specific members to the space by sending invitations.

Shared

Anyone with the sharing link can access the space.

Initial Role

Contributor

Copy Sharing Link

Permissions

- Contributors can see the members list
- Contributors can make their projects visible to all members
- Viewers can see the members list



\$



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Getting students in

take this link (and optionally make it into a short link)

evaluate whether students should be able to see each others' names or not

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a new project in RStudio Cloud

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New Project



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is a new project in RStudio





\$

(i)



Who can view this project

Everyone in Shiny TTT

Assignments

Make this project an assignment



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Sharing projects

by default, projects in a workspace are visible to you (+ admins and moderators only)

use assignments to create projects that will make a copy for the student when they click on it







Space Settings

Name

eCOTS 2018 - RStudio Cloud

Base project templa	ate
---------------------	-----

none



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...

Save

Base project

Set Base	Project	Template
----------	---------	----------

Select the project to use

none

hello cloud

If you don't see the project you're looking for listed above, make sure that you have set its access to 'Everyone in eCOTS 2018 - RStudio Cloud'.

OK

X

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Your turn Create an RStudio Cloud workspace, set a base project with any projects you need installed, add an app.

Then, invite a classmate like a student and confirm they can copy your project and edit it.



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a new project from Git Repo in RStudio Cloud



base project template is used, so new project from git also has the right packages installed!



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New Project		
Back	Create Project from Version Control	
5	Git Clone a project from a Git repository	>
SVN	Subversion Checkout a project from a Subversion repository	>
		Cancel



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make a second account for yourself and add as contributor (student) to see what your students see



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Teaching tip



Mine's testing agent minebotmine



Is a studio projects **Standardize computing** environment



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WORK IN F We're in alph improving pe reach out wit https://comr



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Parting remark

WORK IN PROGRESS

- We're in alpha and still adding important features and improving performance, reliability and availability. Please
- reach out with any questions or feedback at
- https://community.rstudio.com/c/rstudio-cloud.

