Notes for Teaching: Data Analysis and Visualization in R for Ecologists

David Klinges

dklinges9@gmail.com

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Key

Green text is potentially new vocab

Red text is something I'm personally uncertain of/have a question

Leading up to Workshop

Day of Workshop

Questions to ask yourself: - *have you gotten snacks for youself and others?*

- *have you turned your RStudio theme to something that doesn't look scary to novices?*
- *are you logging into an account that won't have notifications or distractions pop up?*
- *Does your RStudio window pane set-up resemble the default?*

Questions to ask the participants: - *What unresolved troubles do any of you have?*

Right when you begin

Questions to ask the participants: - *Can everyone see my screen all right?*

Lesson Outline

Before we Start

Why Learn R?** - Learning curve is steep, but you don't need to remember pointing and clicking. . . that's good! So, if you want to redo your analysis, you don't have to remember which button you clicked in which order - Reproducible - Interdisciplinary - Data of all shapes and sizes - Great for graphics - Awesome community - *packages!*

Setting up/Projects in RStudio

Last call for anyone to speak up if they haven't installed RStudio and R

Benefits of a Project: - clean. Everything in one place and you don't need to remember where - As we'll soon learn, easier for us to tell R where files are too

Project structure, explain each: data/ documents/ (notes to self or others, images, web links, bibliography, etc.) scripts/ (documents on which we type our code) figures/

Not hard and fast! Some projects should have other structures. But this will have pretty universal recognition

Working Directory