

# SESSION 8

## FUNCTIONS 2

R FOR SOCIAL DATA SCIENCE

JEFFREY ZIEGLER, PHD

ASSISTANT PROFESSOR IN POLITICAL SCIENCE & DATA SCIENCE  
TRINITY COLLEGE DUBLIN

FALL 2022

# ROAD MAP FOR TODAY

Last time:

- Software bugs
- Debugging

This time:

- Handling conditions
- Testing
- Defensive programming

# CONDITIONS

# CONDITIONS EXAMPLES

## CONDITIONS EXAMPLES CONTINUED

# ERRORS

# WARNINGS

# MESSAGES



# HANDLING CONDITIONS

# IGNORING CONDITIONS

# IGNORING ERRORS

# CONDITION HANDLERS

# EXITING HANDLERS

# CALLING HANDLERS

# DISCRETION IN CONDITION HANDLING

# EXPECTATIONS



# CHECKING EXPECTATIONS

## CHECKING EXPECTATIONS CONTINUED

## FORMALISING EXPECTATIONS CHECKS: TESTING

# TESTING EXAMPLES

## TESTING EXAMPLES CONTINUED

## TESTING EXAMPLES CONTINUED

## TESTING EXAMPLES CONTINUED

# DEFENSIVE PROGRAMMING



# OVERVIEW

This week:

- Software bugs
- Debugging
- Handling conditions
- Testing
- Defensive programming

Next week:

- Data wrangling