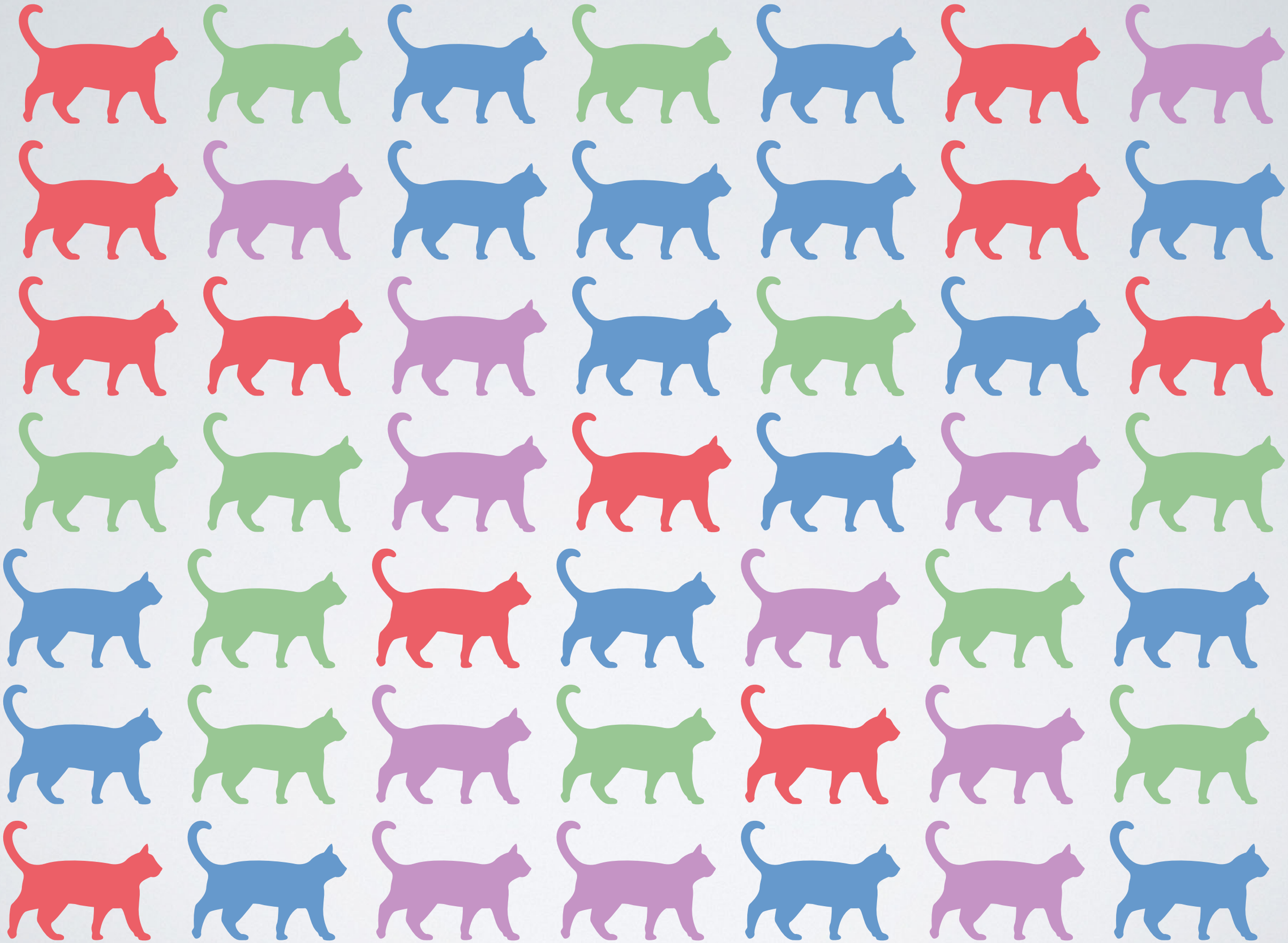
making Julia more inclusive and accessible

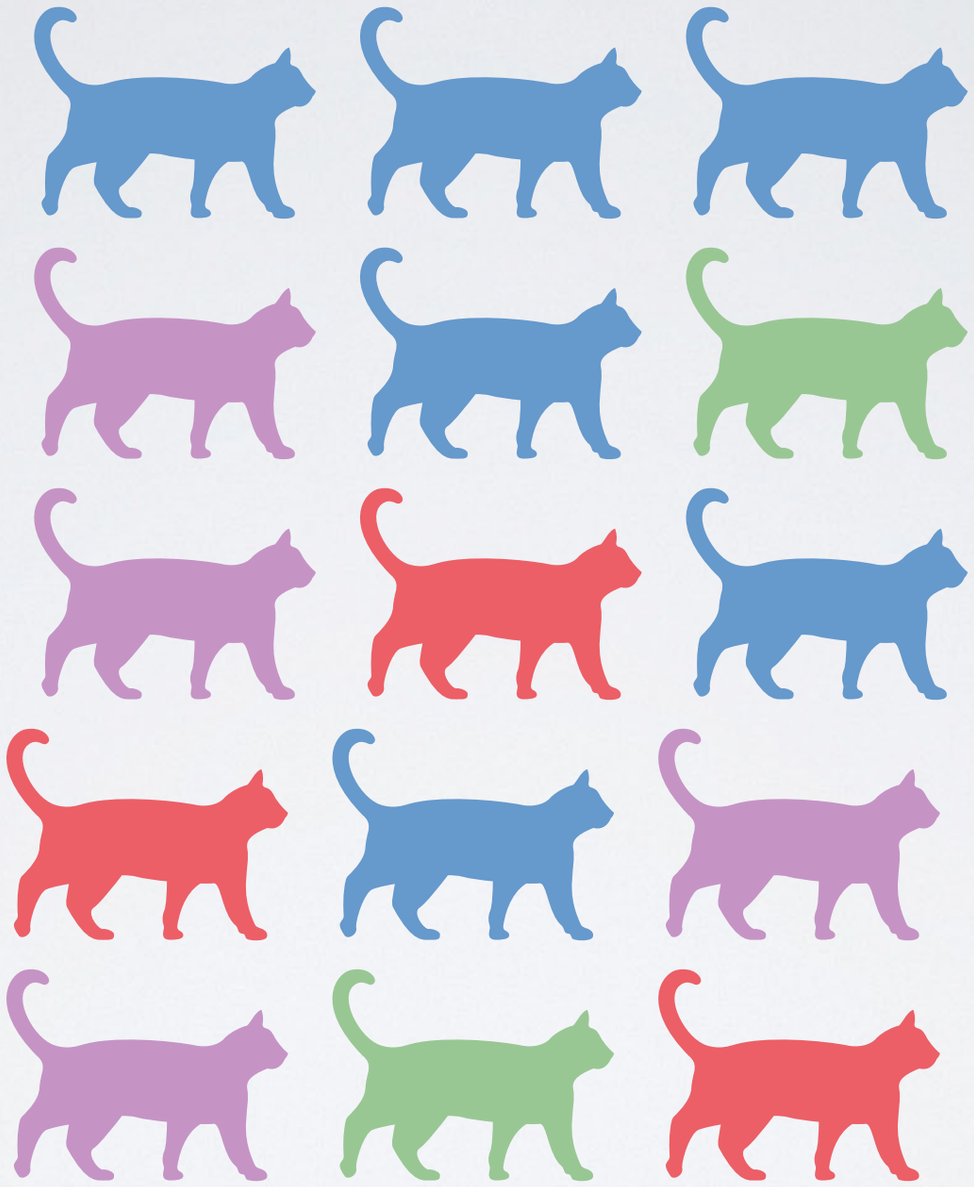
Jane Herriman
Julia Computing & Caltech

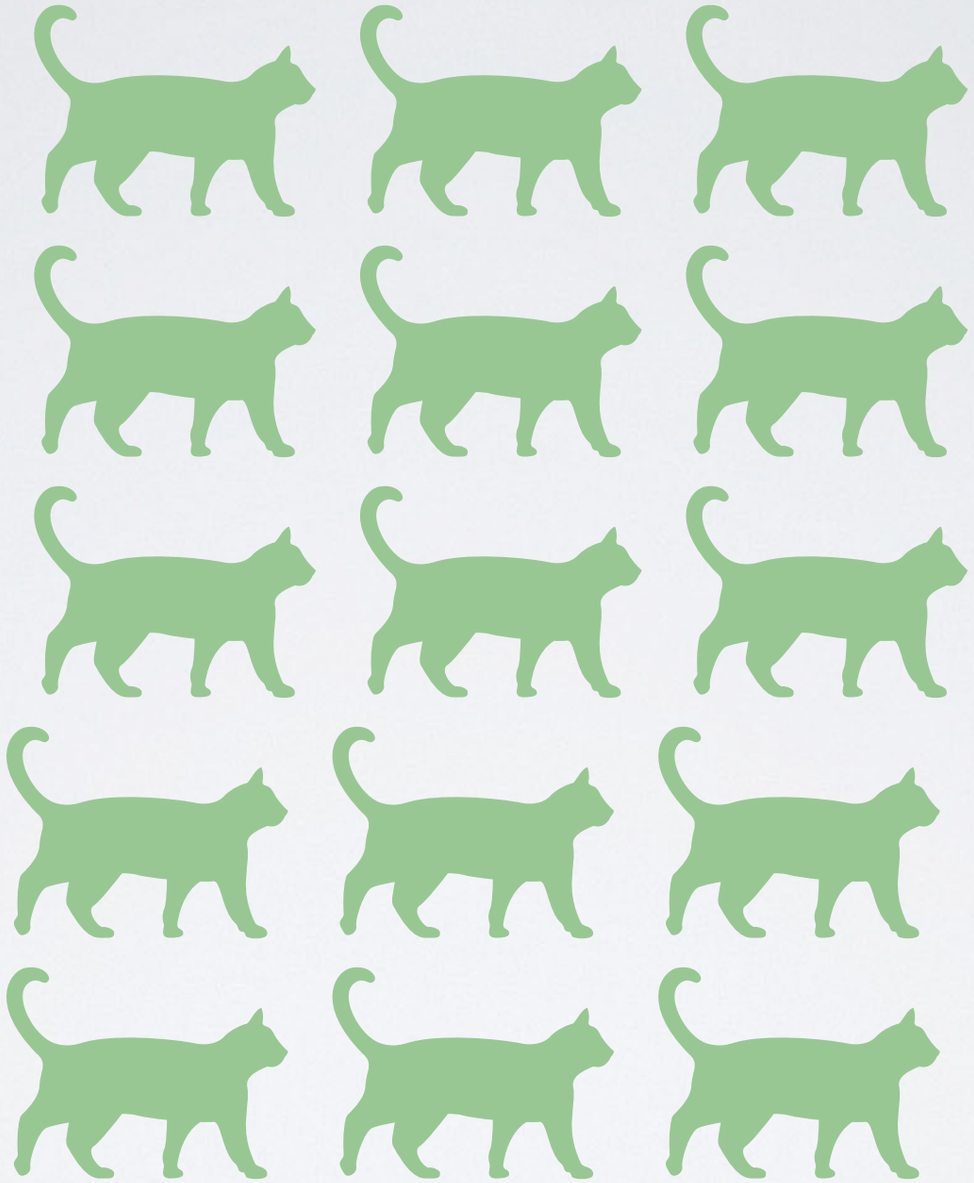
Julia Computing Awarded $910,000 Grant by Alfred P. Sloan Foundation, Including $160,000 for STEM Diversity

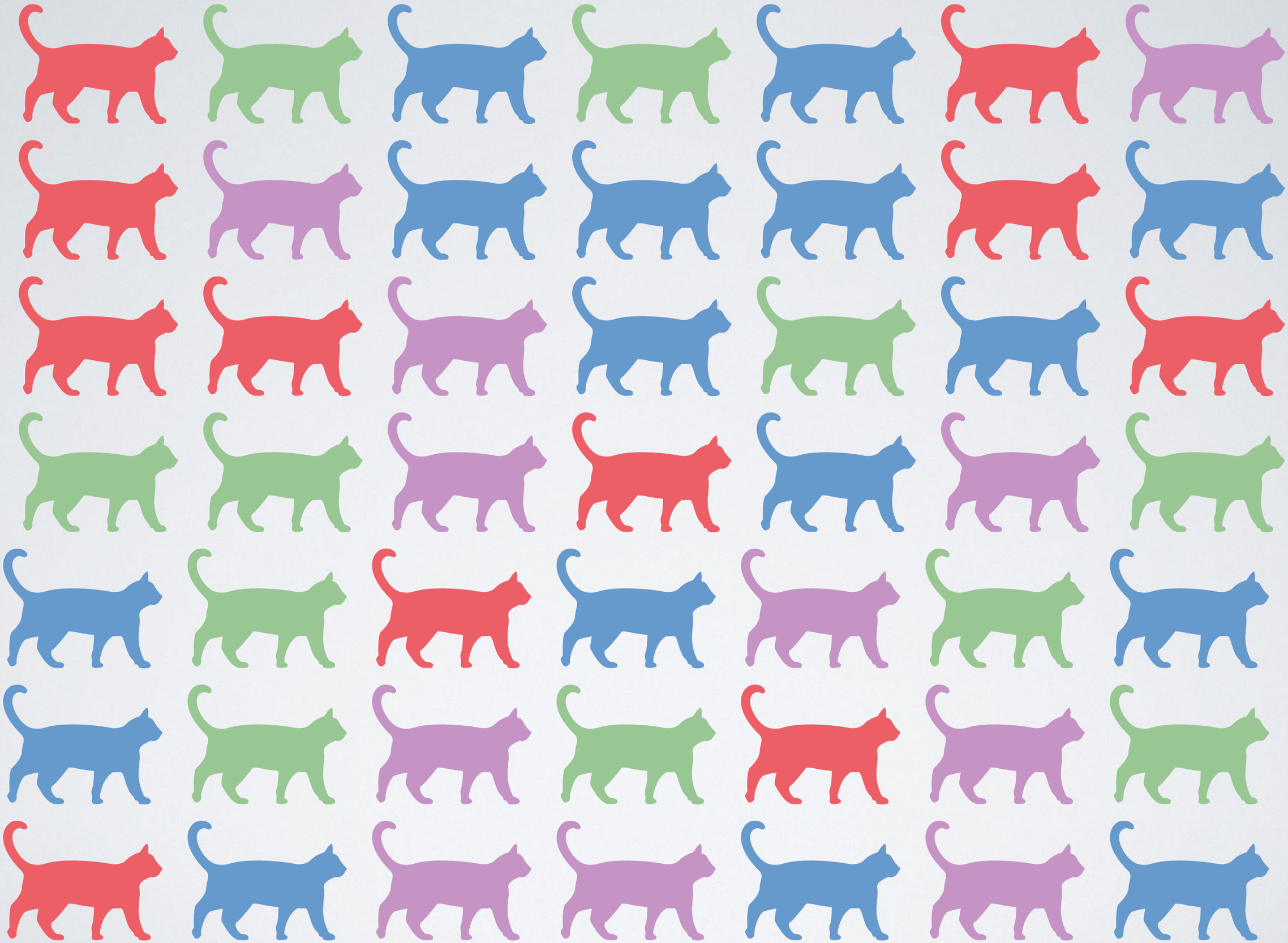
26 Jun 2017 | Andrew Claster

Cambridge, MA – Julia Computing has been granted $910,000 by the Alfred P. Sloan Foundation to support open-source Julia development, including $160,000 to promote diversity in the Julia community.









Our approach

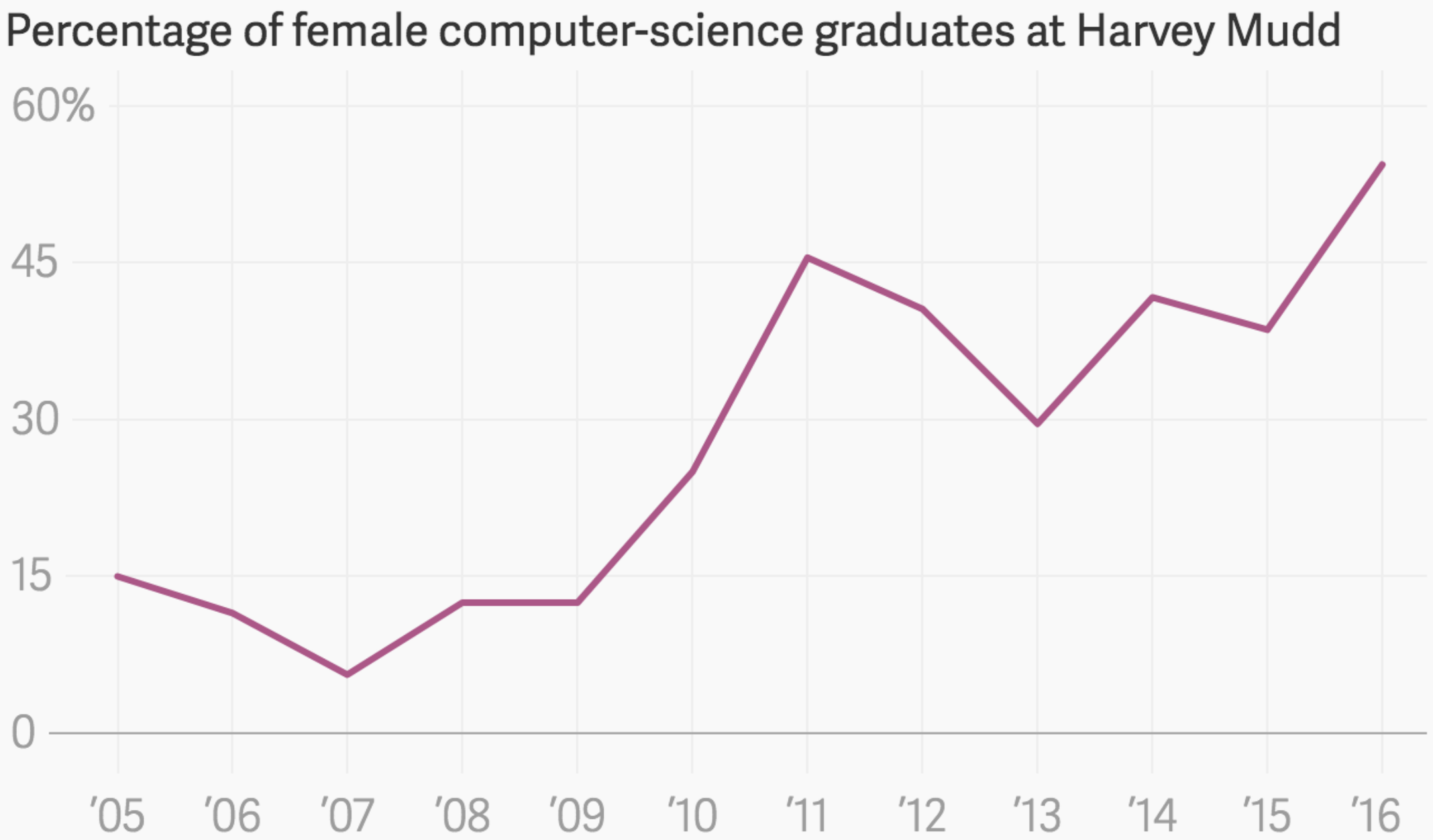
What we've done

What we will do

Our approach

What we've done

What we will do



https://qz.com/730290/harvey-mudd-college-took-on-gender-bias-and-now-more-than-half-its-computer-science-majors-are-women/

<u>focal points:</u>

accessible teaching materials & outreach

Our approach

What we've done

What we will do

youtube tutorials

in-person tutorials

Julia BOX

Packages Git Google Drive

jupyter

Files Running Nbextensions

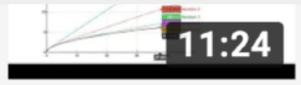
Select items to perform actions on them.

0 / tutorials

- ..
- advanced-julia
- intro-to-julia
- intro-to-julia-DataFrames
- intro-to-julia-ES
- intro-to-julia-for-data-science
- intro-to-juliadb
- intro-to-solving-diffeq-in-julia
- intro-to-the-queryverse
- introduction-to-dynamicalsystems.jl

Julia Tutorials

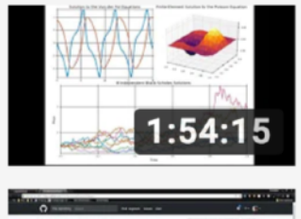
The Julia Language - 1 / 10



The Julia Language

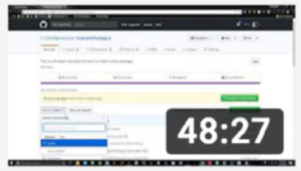
Intro to JuliaDB, a package for working with large persistent data sets

The Julia Language



Intro to solving differential equations in Julia

The Julia Language



Developing and Editing Julia Packages

Christopher Rackauckas

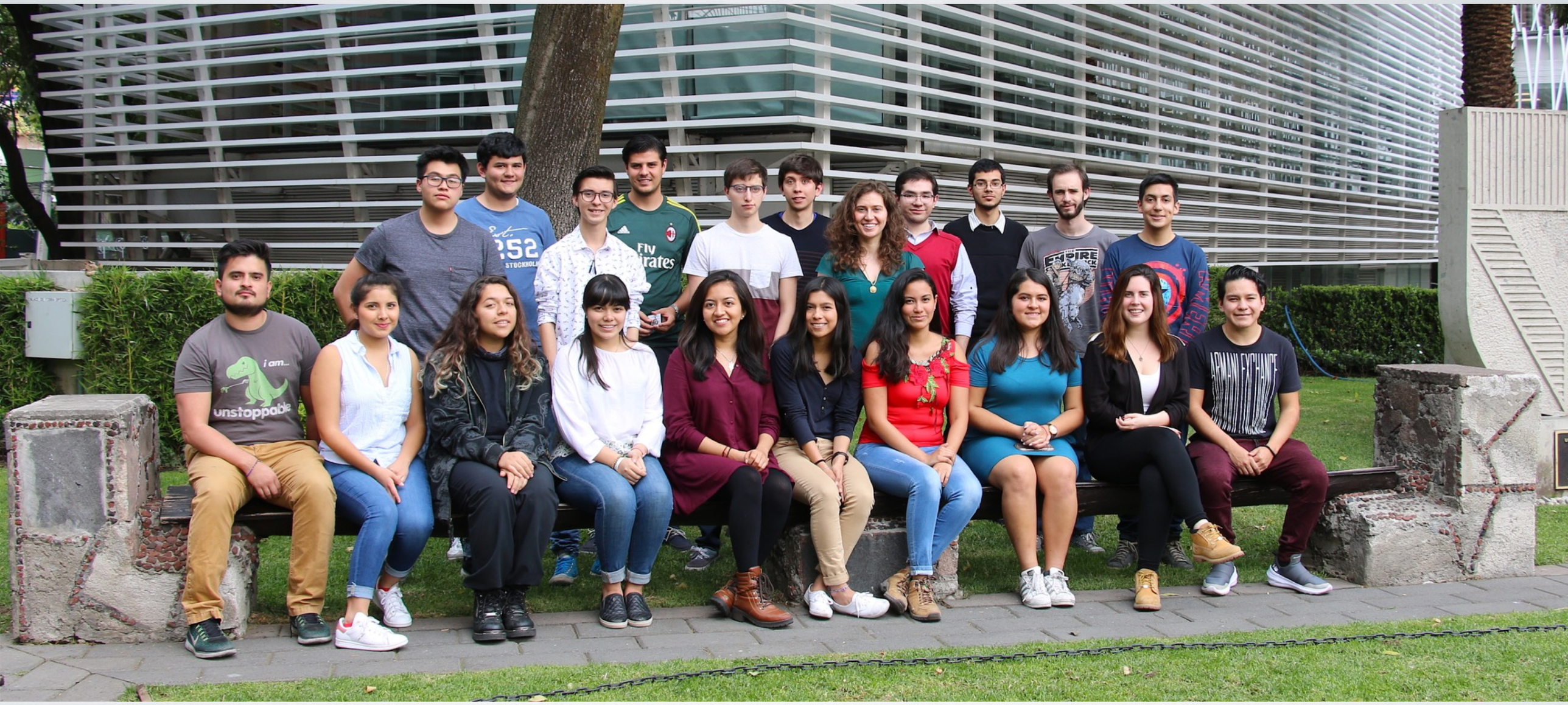
¡Tutorial de Julia en Español!

BrainRPG Project

Intro to Julia DataFrames

The Julia Language

at Smith College



at Universidad Panamericana

MIT
Tufts
Smith
Purdue
Brandeis
Denison
Harvard
Stanford
Simmons
Ohio State
UC Berkeley
Northeastern
Boston University

University of Chicago
Universidad Panamericana
University of New Mexico
University of San Francisco
Harold Washington College
Illinois Institute of Technology
Southwestern Indian Polytechnic Institute
Central New Mexico Community College
Universidad Nacional Autónoma de México
New Mexico Institute of Mining and Technology

a few of our partnering organizations

FEMTech
Women in Computer Science
Association for Women in Math
Society of Black Scientists and Engineers
Society for Hispanic Professional Engineers
Association for Computing Machinery's Council on Women

juliacon

Our approach

What we've done

What we will do

partnering with existing courses & content creators

high level languages can lower the barrier to entering CS

Secure | https://www.coursera.org/courses?query=programming

coursera | Explore | programming | For Enterprise | Log In | Sign Up

All Topics

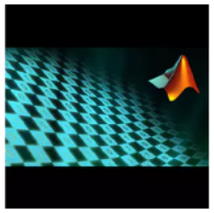
- Computer Science 312
- Data Science 129
- Physical Science and Engineering 30
- Business 20
- Life Sciences 15
- Information Technology 8

Show more

Courses and Specializations

Programming for Everybody (Getting Started with Python)

Course · University of Michigan



Introduction to Programming with MATLAB

Course · Vanderbilt University

Python Programming: A Concise Introduction

Course · Wesleyan University

An Introduction to Interactive Programming in Python (Part 1)

Course · Rice University

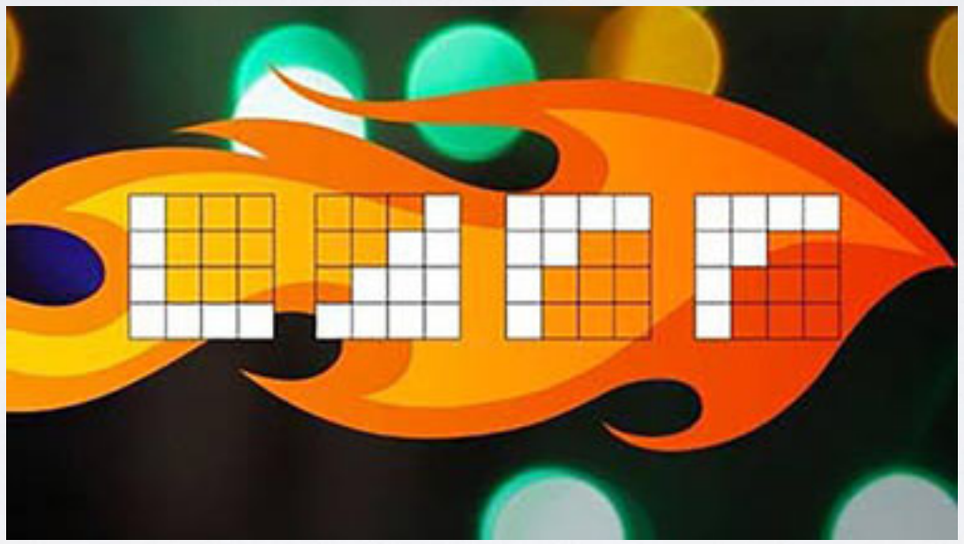
intro CS:
high level languages

loops
variables
functions
conditionals

advanced CS:
low level languages

types
memory
compilers
performance

Where will we start?



We've covered…..

Our approach

What we've done

What we will do

Thank you for your attention!