

# Detecting and Addressing **BIAS** in Data, Humans, and Institutions



**Mission:** to seed a generation of researchers trained to identify and mitigate biases that arise when data-centric methods are applied to real-world problems



This project is based on work supported by NSF Grant #2125295

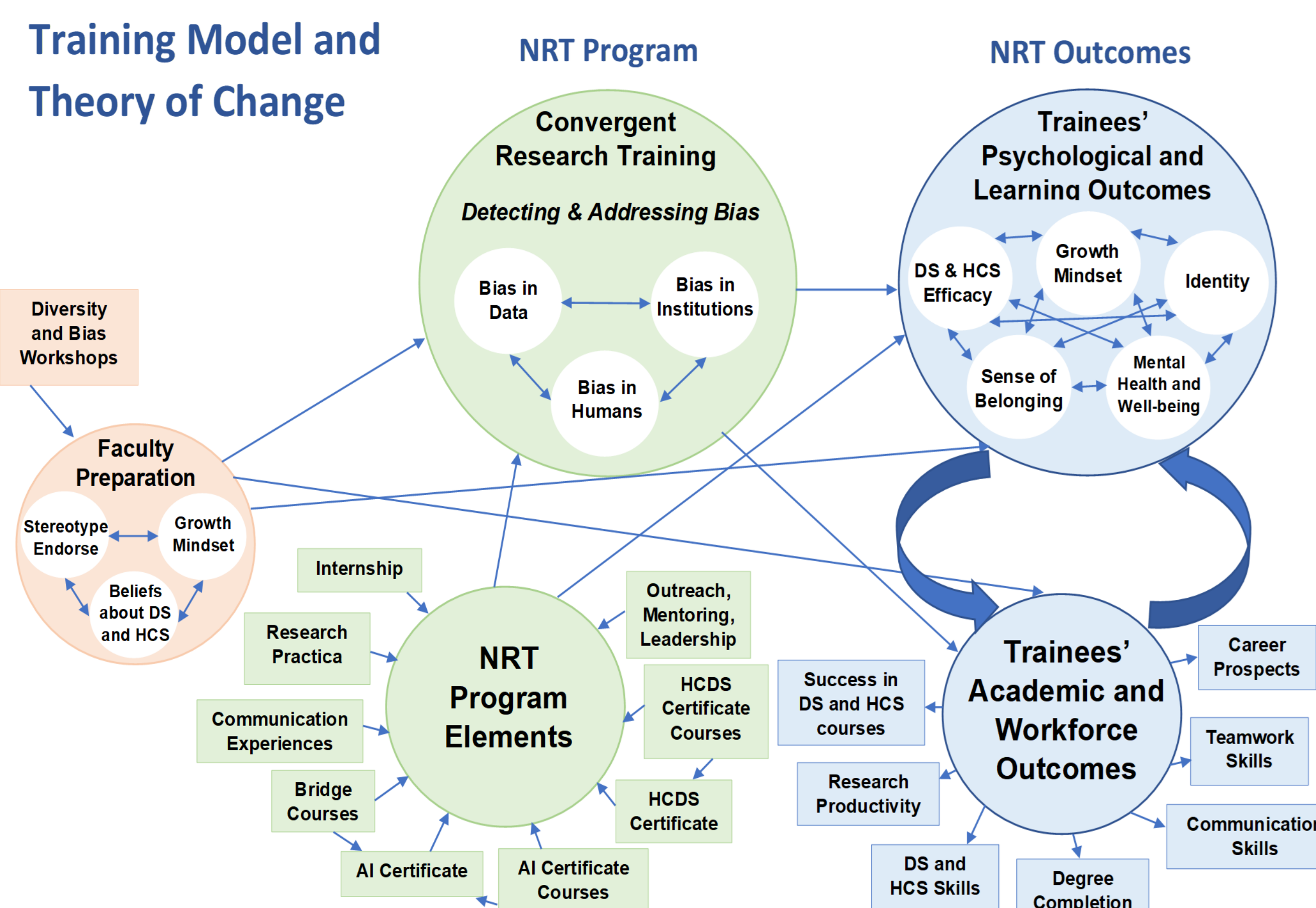
## Introduction

Data science and AI are powerful tools for generating new knowledge, fueling innovation, and dealing with society's most pressing problems. However, "big data" and machine learning tools can perpetuate biases that advantage some people, and disadvantage others. This training project (NSF 2125295) bridges perspectives from the human-centered sciences with those from the data sciences in support of convergent research projects.

This project includes faculty and Ph.D. students from the data sciences (DS), as well as from the human-centered sciences (HCS). Participating Ph.D. programs include **Africana Studies, Applied Mathematics & Statistics, Cognitive Science, Computer Science, Economics, Linguistics, Political Science, Psychology, Neurobiology & Behavior, and Sociology.**

## Y1 Achievements

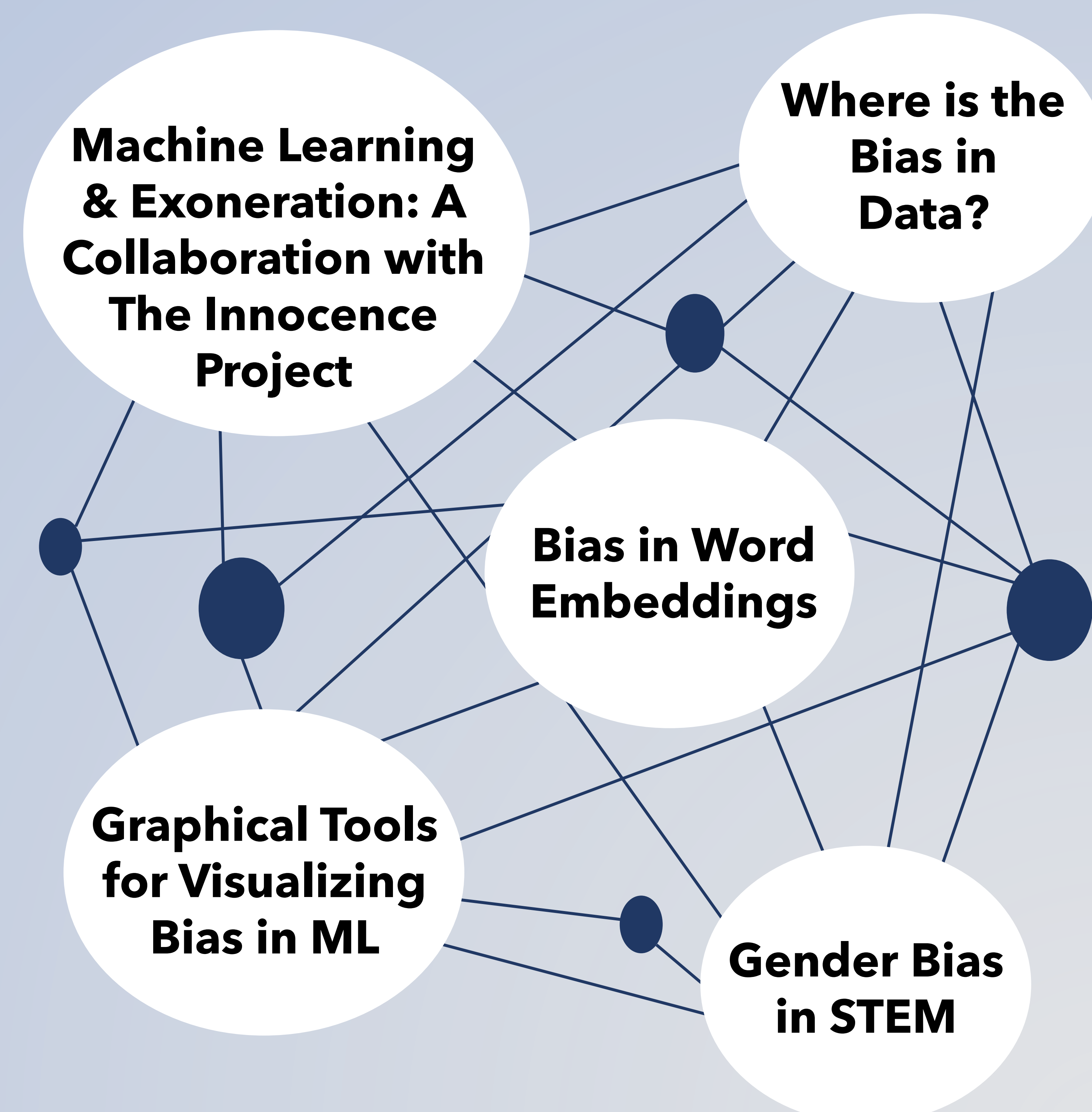
- ✓ Recruited first cohort of 11 trainees from 7 PhD programs
- ✓ Launched Fall 2022 Research Practicum
- ✓ Created Bridge Mentoring Structure (DS students paired with HCS faculty and vice versa)
- ✓ Began approval process for 2 graduate certificates



## Features of the Traineeship Model



## Research Practicum, Fall 2022 Sampling of Topics Underway:



**2022-2023 Cohort:** Rosa Bermejo, Kalina Kostyszyn, Carl Wiedemann, James May, John Murzaku, Veronica Oelerich, Sekine Ozturk, Amie Paige, Karin Hasegawa, Pei-Hsun Hsieh, Medhini Urs



**Leadership Team:** Susan E. Brennan (PI), C.R. Ramakrishnan, Wei Zhu, Bonita London, Jeffrey Heinz  
**Project Coordinator:** Kristen Kalb-DellaRatta  
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