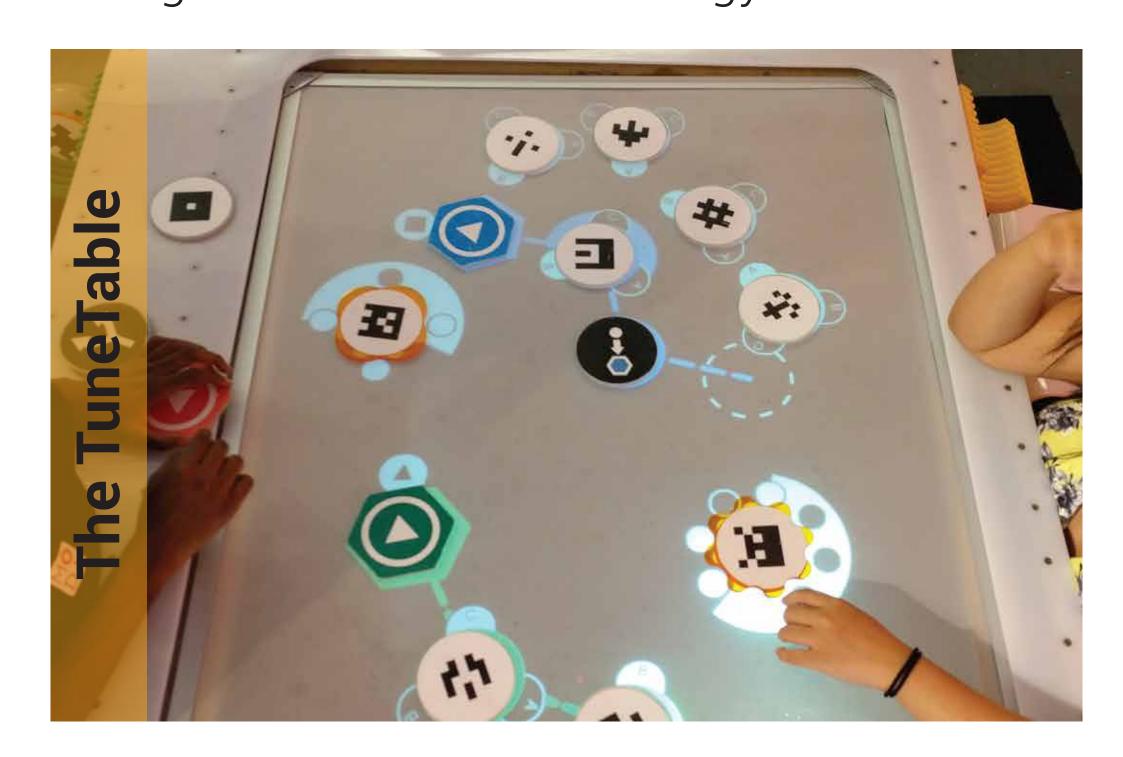
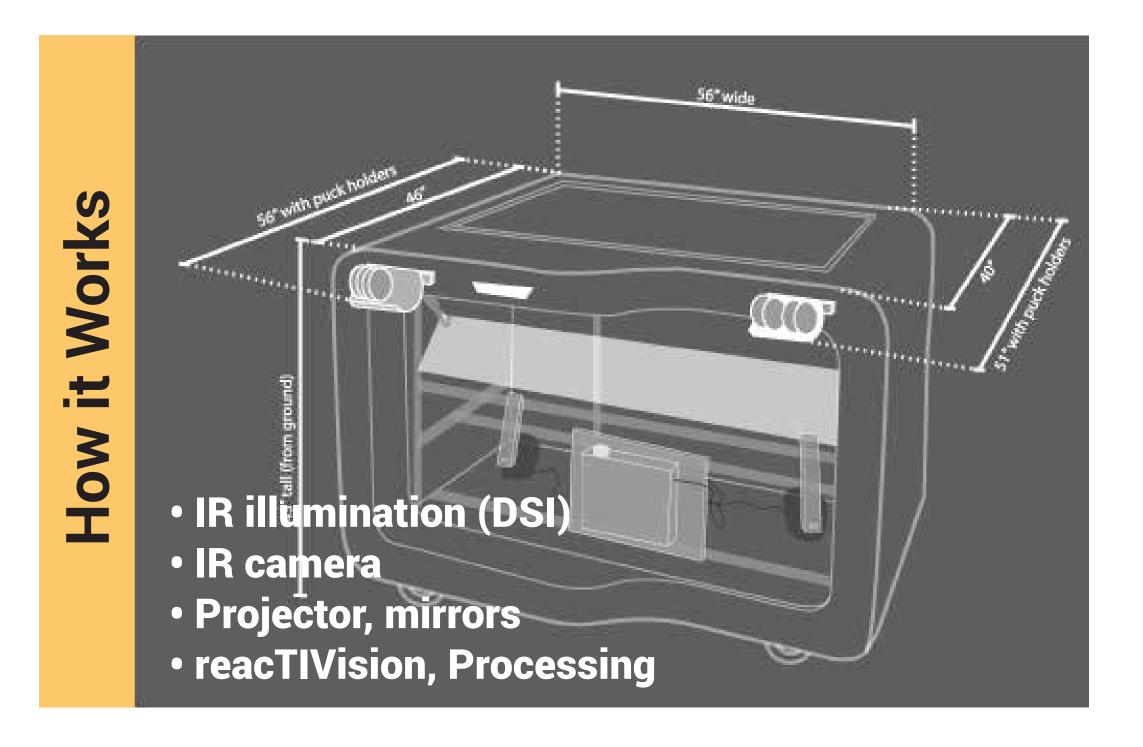
TuneTable

A Tangible Computational Music Installation for Informal Learning

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MODA Study, Summer 2016: Identified senses of ownership and motivations for self-learning.

APE: Exploratorium-inspired theory of Active Prolonged Engagement (APE) emerged.

Co-Creation: Explored theoretical synergies with co-creation and participatory sense-making.

MSI, Summer 2017: Planned new study at the Museum of Science and Industry (MSI) in Chicago.

Data Collection: Development of multi-camera data collection method.

TunePad: Began collaboration with Northwestern University to develop TunePad, a tablet version of the TuneTable.

EarSketch: Increased integration with EarSketch coding platform (Georgia Tech).

Learning: Connect learning experiences in the museum, school, and home.

Experience: Extending the physical museum experience to continued learning online.

Community: Complementing physical and digital social experiences and fostering communities.

Design/Language

Jams: Organizing jam sessions for brainstorming, paper prototyping, encouraging diverse approaches.

Design Themes: Identifying themes uniting different design visions.

Prototyping: Developed design and language prototypes independently -- often difficult.

Design Decisions: Division of roles, representations of time, portraying code, global vs. local functions, sound design.

Language: Procedural, sequential, encapsulated.

Toward TuneTable 2.0

AISL NSF: Funded for Fall 2016 - Fall 2020.

Techniques: Generating methods for rapid physical prototyping.

Physical Materials: Considering portability and replicability for future installations.

MSI Study: Deploying updated hardware, improved interface and programming language.

Future: Building toward long-term relationships with museums around the country.











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