Mid-America College Art Association Conference
2012 Digital Publications

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Creating with Code: Critical Thinking and Digital Foundations

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2012 MACAA Conference

Creating with Code:
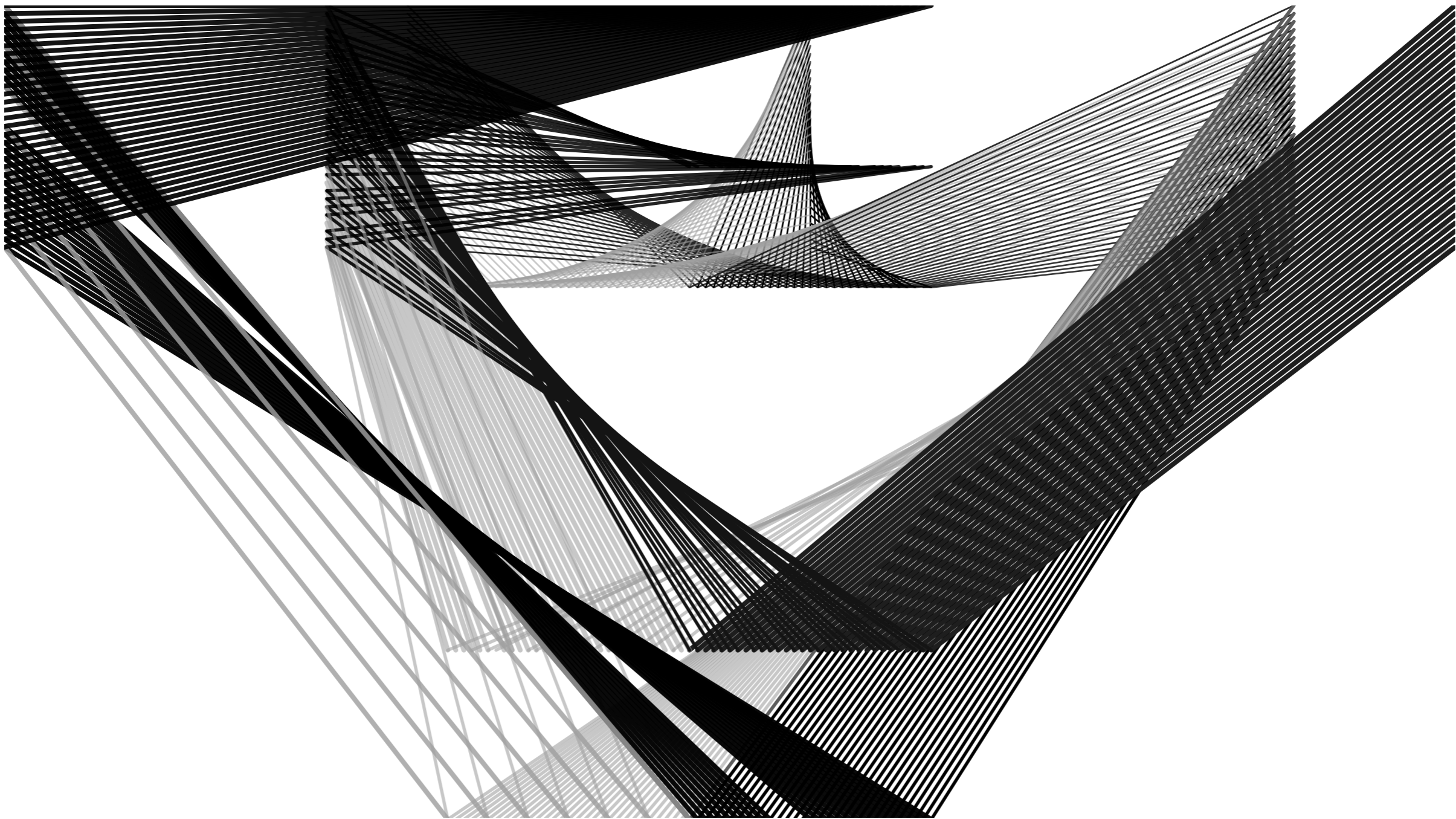# Critical Thinking and Digital Foundations

Brad Tober
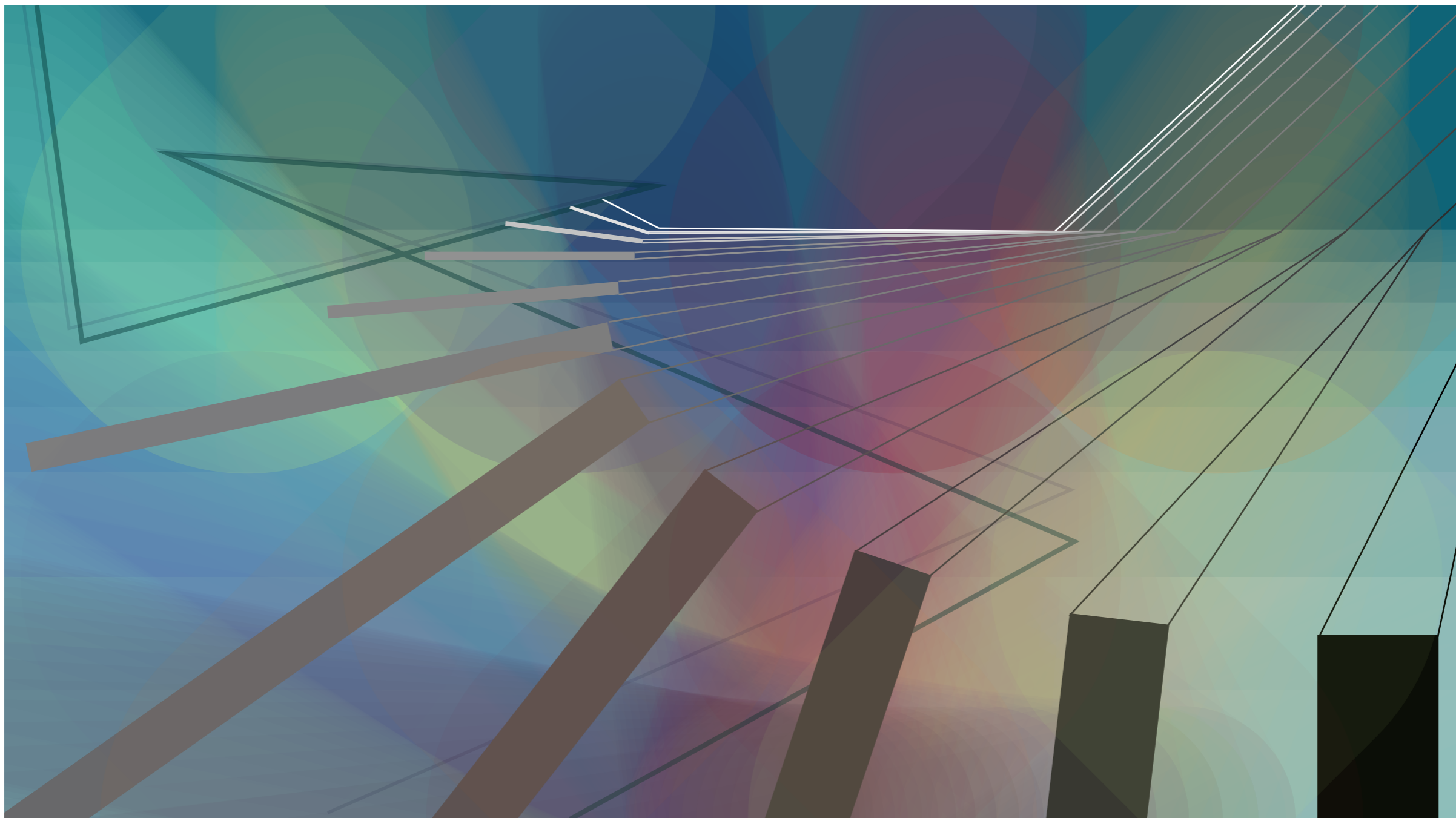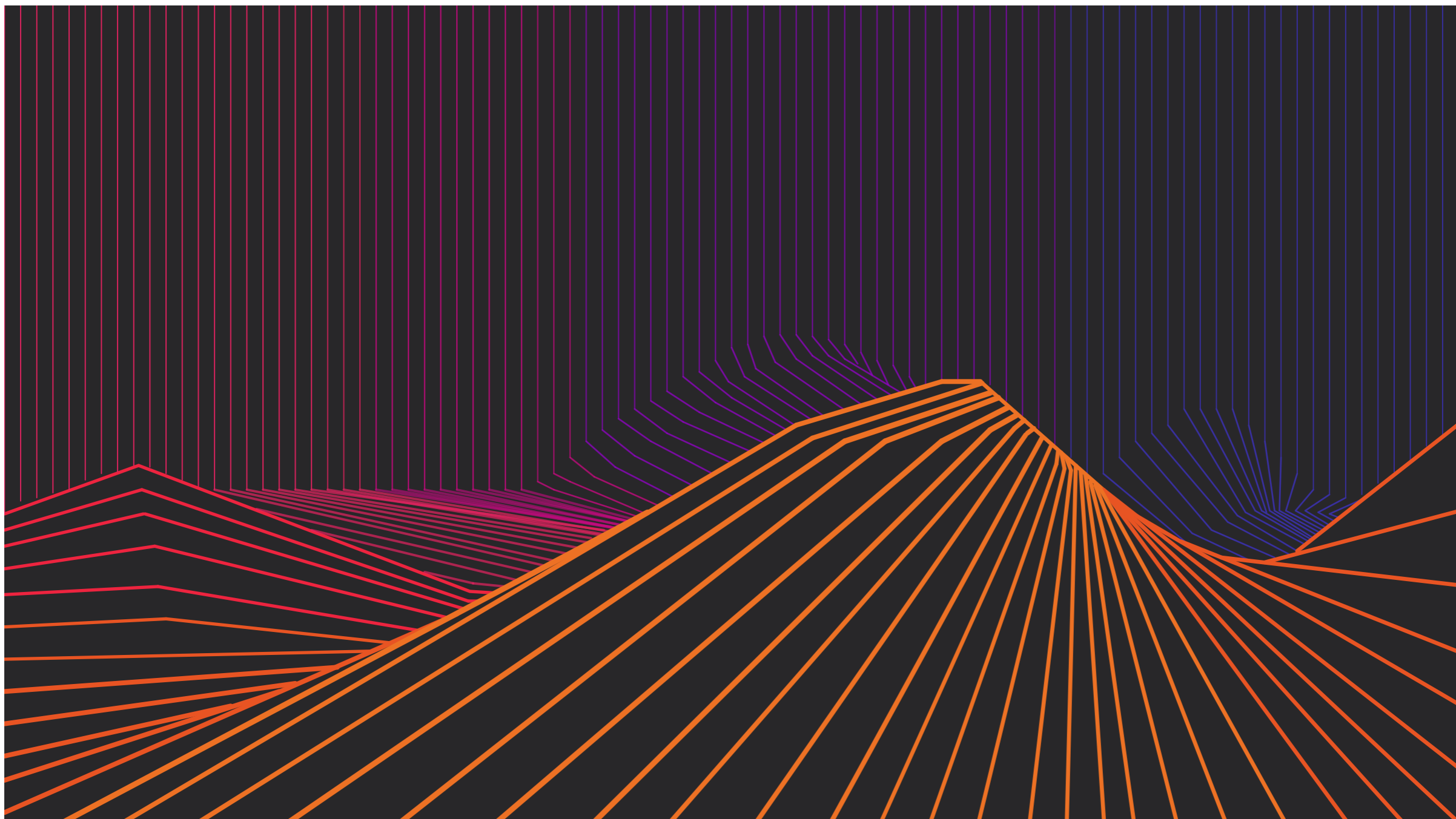University of Illinois at Urbana-Champaign

Code? What? Why?

Hannah Hwang

Stacie Sansone

Mark Fuelle

Rachel Fox

Pedagogic / Pragmatic

Learning to code can help to develop critical thinking and problem solving skills.

Learning to code involves a more comprehensive engagement with contemporary tools and methods of making.

The principles of coding
share conceptual aspects
with the principles of design.

Pedagogic / **Pragmatic**

So little time, so much to do!

Visual organization
Design and drawing elements
Design and drawing principles

Visual literacy
History of art and design
Contemporary issues
Meaning
Communication
Introduction to semiotics and representation

Critical thinking
Experimentation and expression
Criticism and the critique process
Cultural context

Cultivating commitment
Time management
Exposure to a variety of professional disciplines

Skills
Exposure to materials
Exposure to processes
Appropriate use of media
Development of technical skills
Critical reading and writing skills
Collaborative skills
Professionalism

Community
Citizenship
Respect of property
Studio health and safety
Service to the larger community
Awareness and acceptance of difference

Teaching coding is a more effective use of resources than teaching the use of software.

Learning to code paves the way for more advanced investigations in the area.

Thank you!

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