

# A RESEARCH FRAMEWORK FOR ENGINEERING LOCATION-BASED POETICS

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# Types of Location-Based Narrative

## Treasure Hunts

*Linear narratives where the user explores and finds a serial route to a conclusion.*

## Jigsaw Puzzles

Open narratives where the user can visit all nodes in any order, but requires visiting all nodes to fully understand the narrative.

## Dominoes

*Multiple linear narratives linked together by common factors.*

## Scrabble

*Open narratives where all nodes are available and the user visits sufficient nodes to make sense of the collecting story.*

## Collecting Butterflies

*Open narratives where all nodes are available but also entirely optional, user picks and chooses which nodes to collect based on interest.*

J. Kjeldskov and J. Paay. Augmenting the city with fiction: fictional requirements for mobile guides. Mobile Interaction with the Real World, pages 41–45, 2007

# Our Structural Types

## Canyons

*A linear narrative represented as a sequence of nodes accessed in a predefined order.*

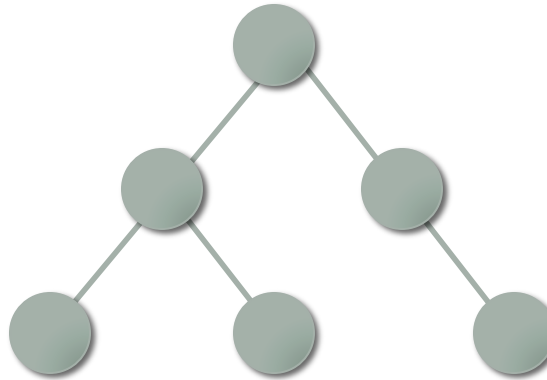
Treasure Hunts

Dominoes



## Deltas

*A start node that repeatedly branches to multiple other optional nodes accessed based on user choices.*



## Plains

*A collection of nodes that are all accessible and can be accessed in any order*

Jigsaw Puzzles

Collecting Butterflies

Scrabble



# Sculptural Hypertext

## Node 1

Prerequisites: none

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Behavior: A

## Node 2

Prerequisites: A

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Behavior: B

## Node 3

Prerequisites: B

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Behavior: -B, C

## Node 4

Prerequisites: B

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Behavior: D

## Node 5

Prerequisites: C

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Behavior: D

## Node 6

Prerequisites: C

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Behavior: E

## Node 7

Prerequisites: D

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Behavior: E

## Node 8

Prerequisites: E

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Behavior: none

# Sculptural Hypertext



# Sculptural Hypertext - A



# Sculptural Hypertext – A, B



# Sculptural Hypertext – A, C





# Sculptural Hypertext – A, C, E



# A Sculptural Model lacks the **High Level Elements** to help authors

- Authors do not think in Nodes, Prerequisites and Behaviours
- We suggested a number of higher level constructs that could help:
  - Chapters and Transitions
  - Timers
  - Stacks (a simple sequence)
  - Locations!
- **But are these the right high level elements**

# What does **Right** mean?

- High level structures should support high level authorial actions
- They should reinforce the typical ways in which authors wish to express themselves in location-based stories

## But

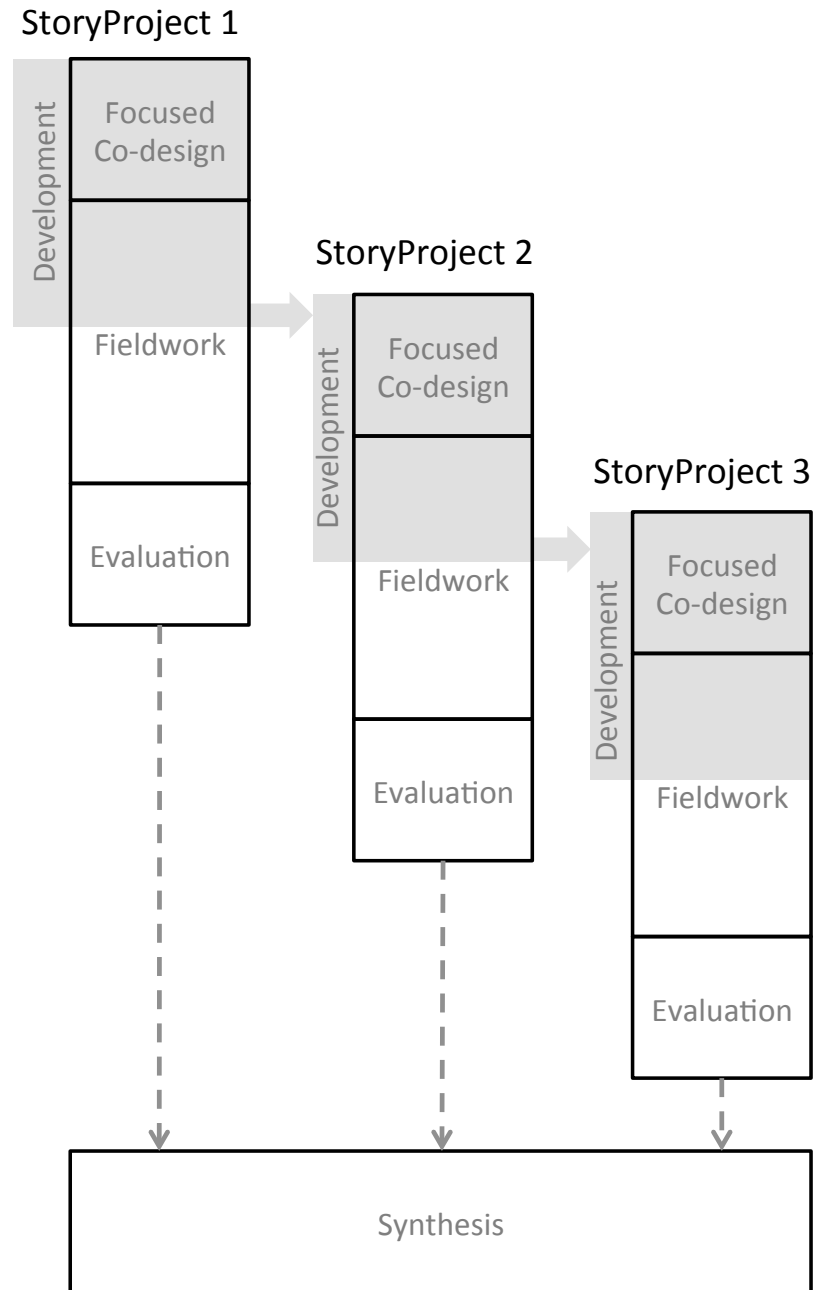
- We don't know what these are
- We are lacking a **poetics** of location-based storytelling



*A theoretical understanding of the form,  
and how authors use the form to express themselves*

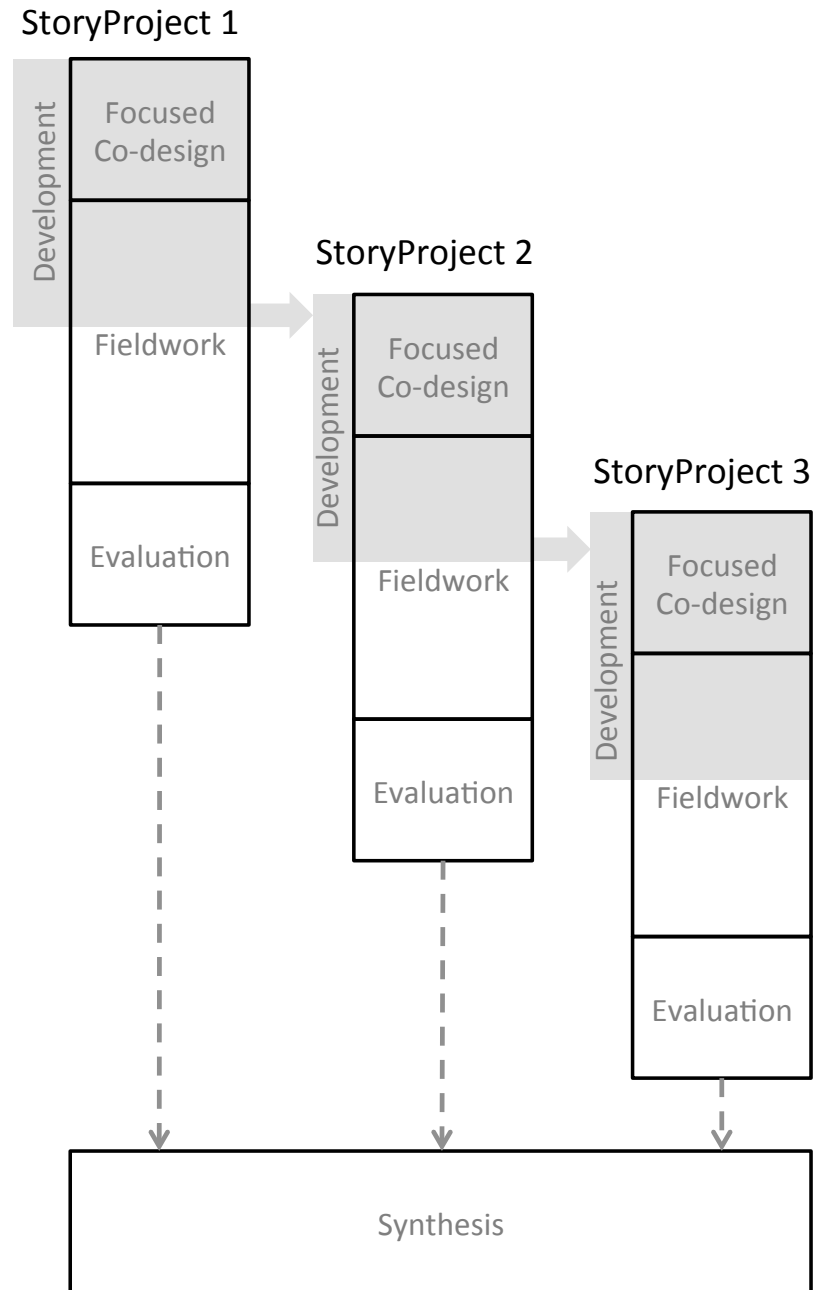
# Can you Engineer Poetics?

- **StoryPlaces** Project
  - Aims to explore the poetics of location-based stories
  - Through **co-design** of multiple location-based stories
  - And feedback loop from authoring to engineering to authoring



# How to make that feedback work?

- **Co-design activities**
  - Brainstorming
  - Physical prototyping
  - Rapid software prototyping
- **Evaluation**
  - UX techniques (e.g. vox pops, experience deconstruction)
  - Critical analysis of stories
  - Author interviews
  - Reader focus groups
  - Repertory Grids



# Our Research Goals

- 1) *What are the poetics of location-based storytelling?*
- 2) *How can these poetics be reinforced/encouraged through software?*
- 3) *What are the processes/practices that enable critical theory to inform software design and engineering?*

Thank You!