



FUDGE

FURTWANGEN UNIVERSITY DIDACTIC GAME EDITOR

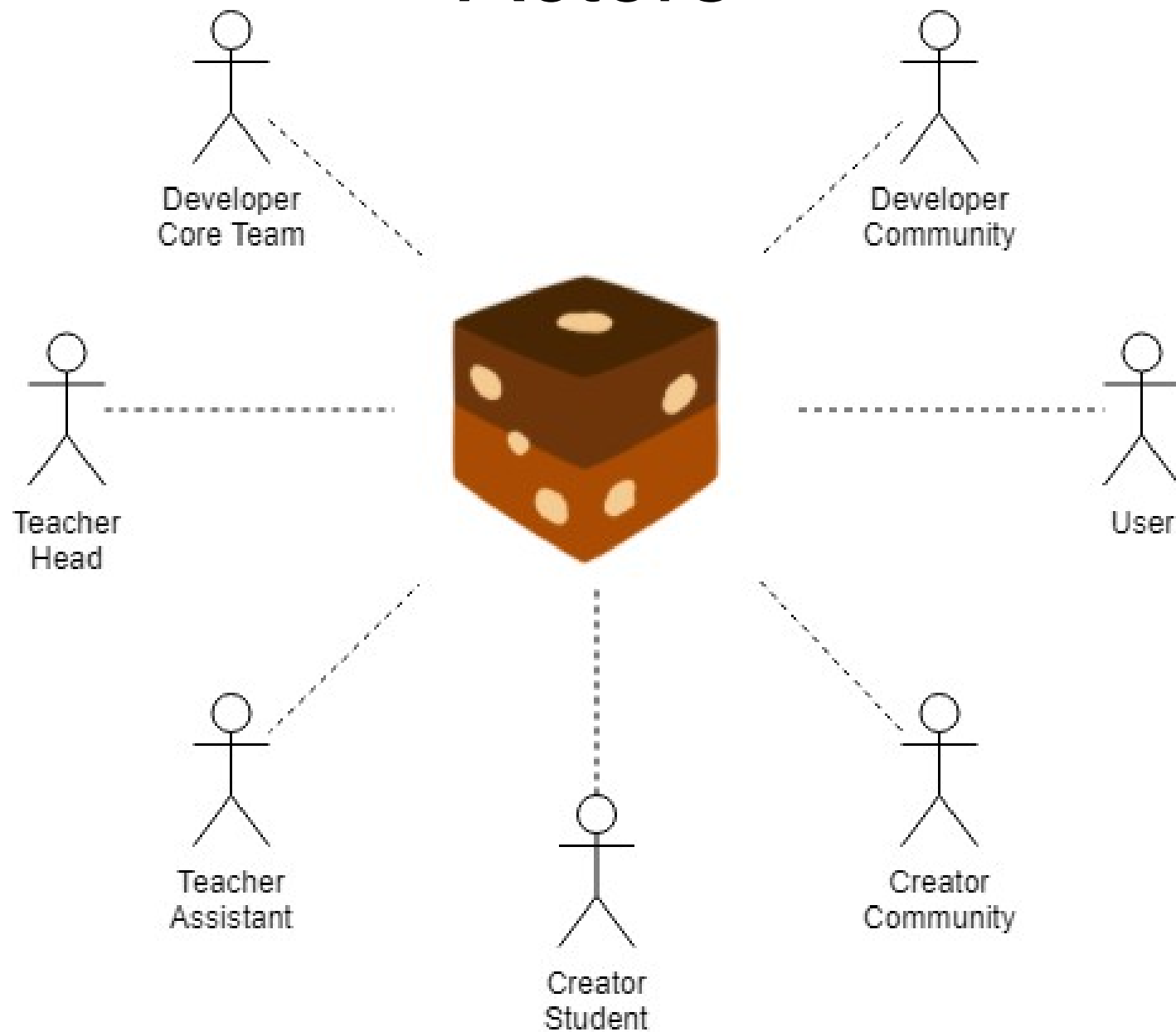
What is FUDGE?

- A lightweight open-source game engine and editor
- for audiovisual 2D- and 3D-games
- the editor running on common desktop devices (Windows, Mac, Linux)
- for use in academic environment
- to teach students how to create digital games and interactive applications
- and for rapid prototyping in productive environments
- deploying results to most common platforms (desktop, mobile, web) and operating systems (Windows, Mac, Linux)
- since it's completely browser based

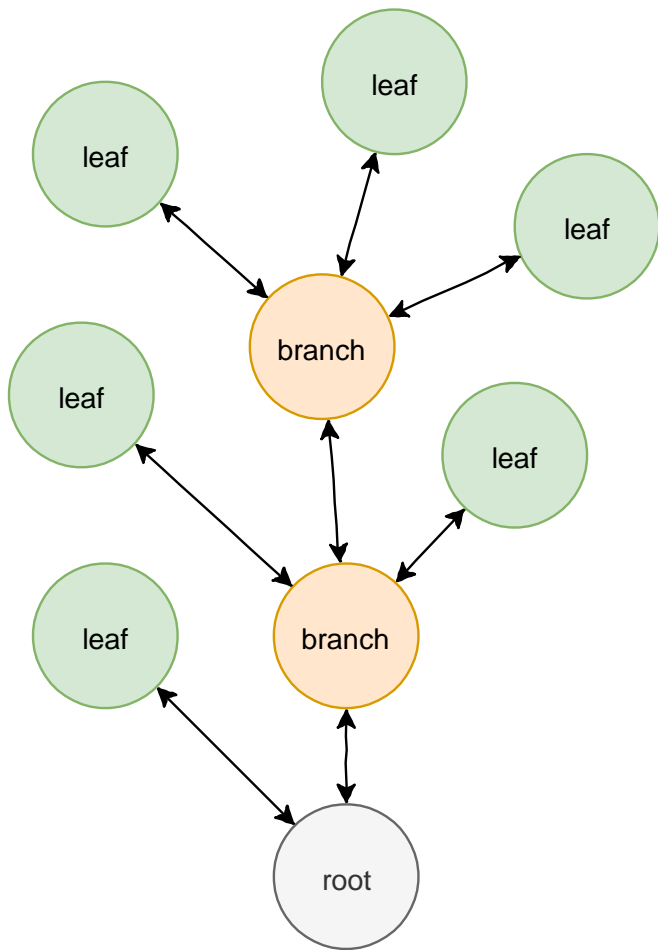
Not (necessarily):

performant, safe, competing with other game engines, easy to use

Actors



Graph

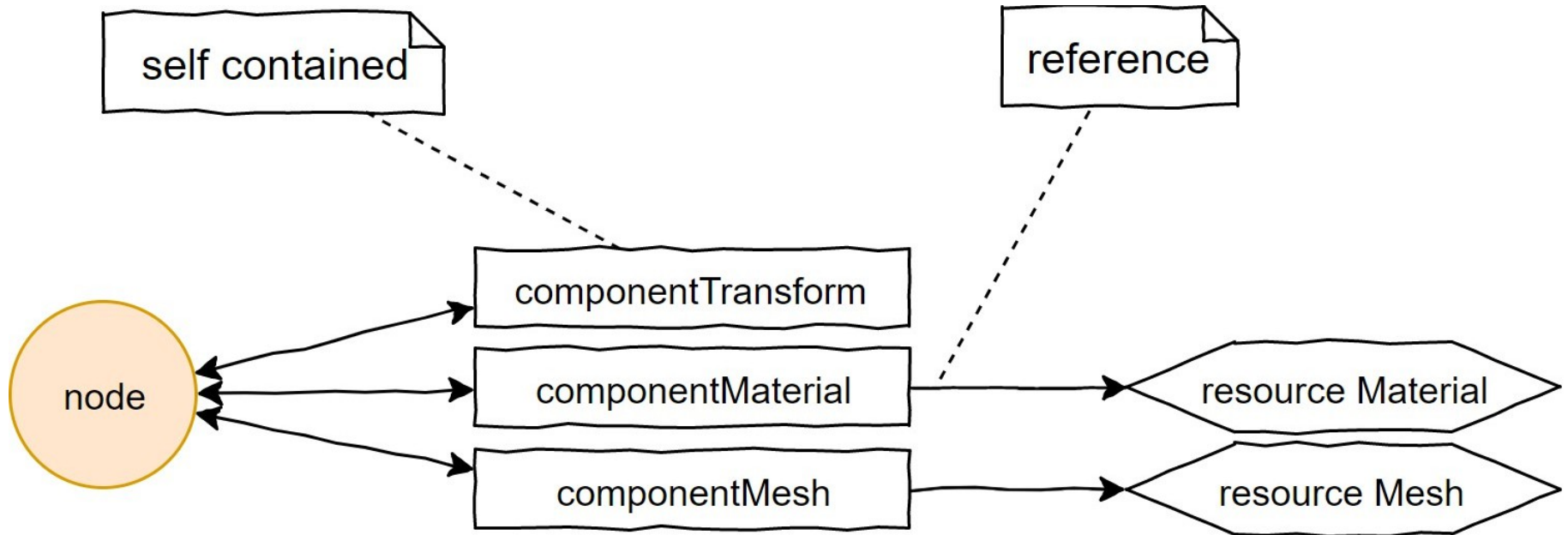


- standard model used in game engines
- also called scenetree or displaylist
- consists of nodes and edges
- creating parent-child-relationships
- building a hierarchical structure (tree)

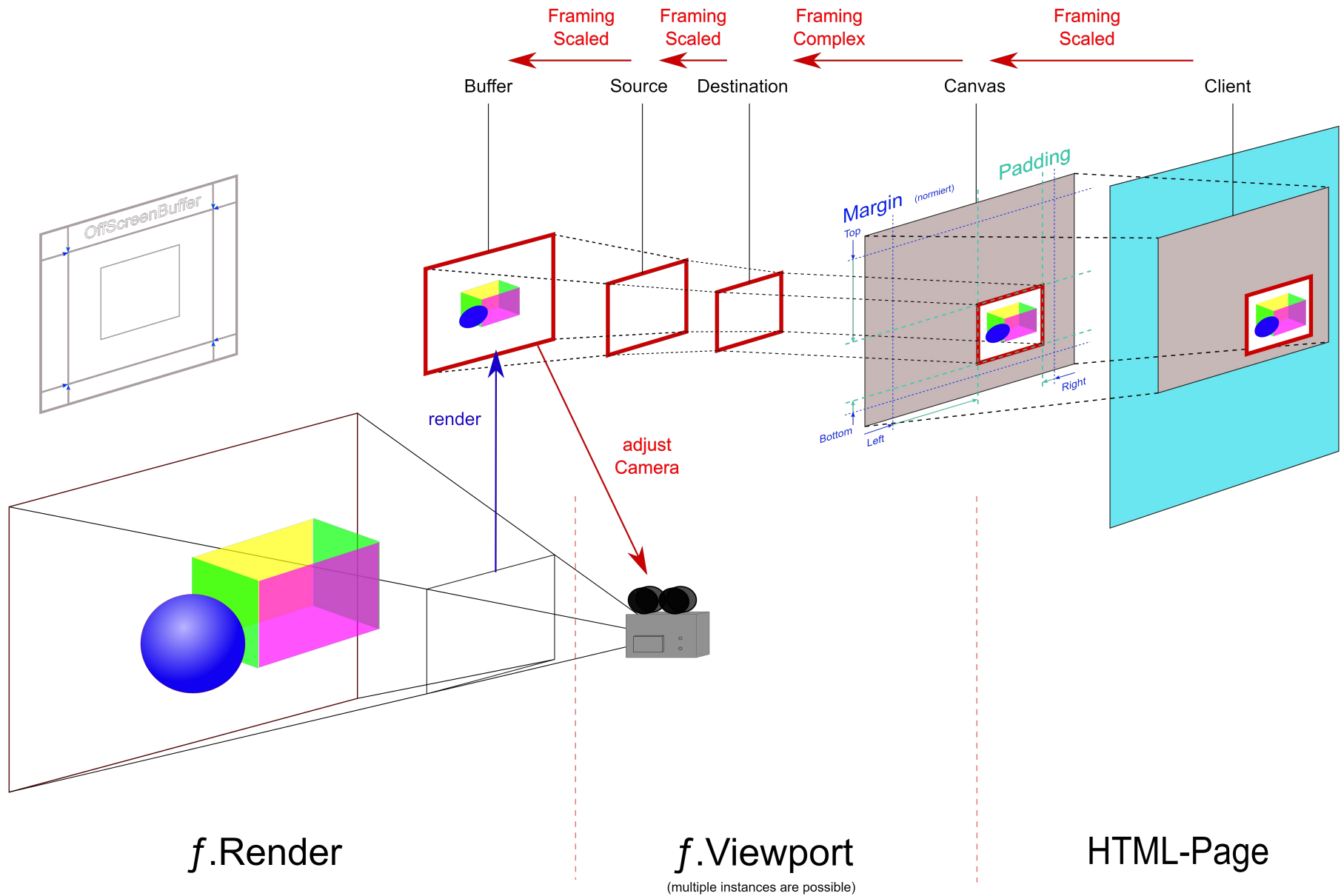
Node

- root, branch, leaf
- aggregates components
- effects descendants
- passes events
- feeds viewport

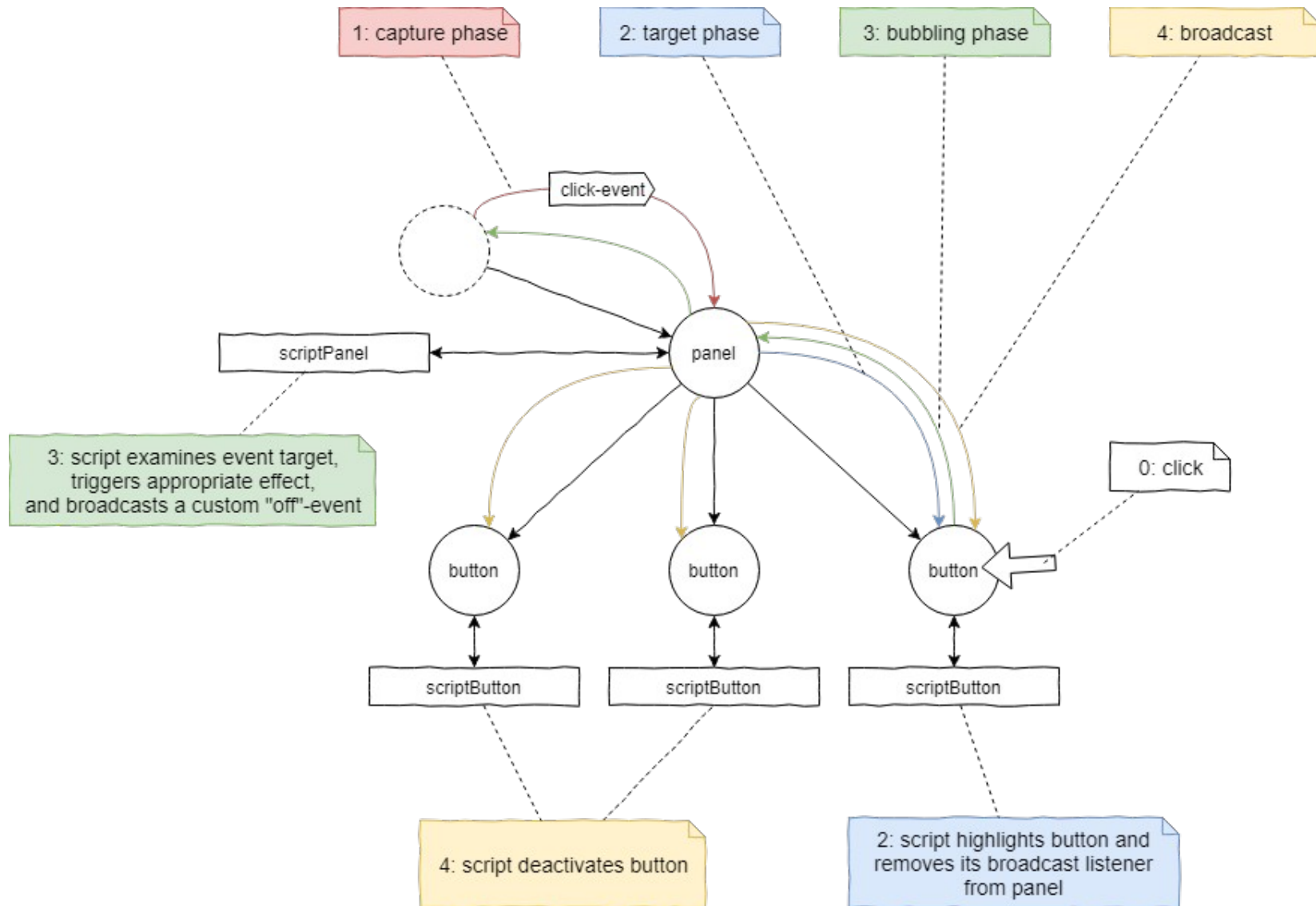
Component



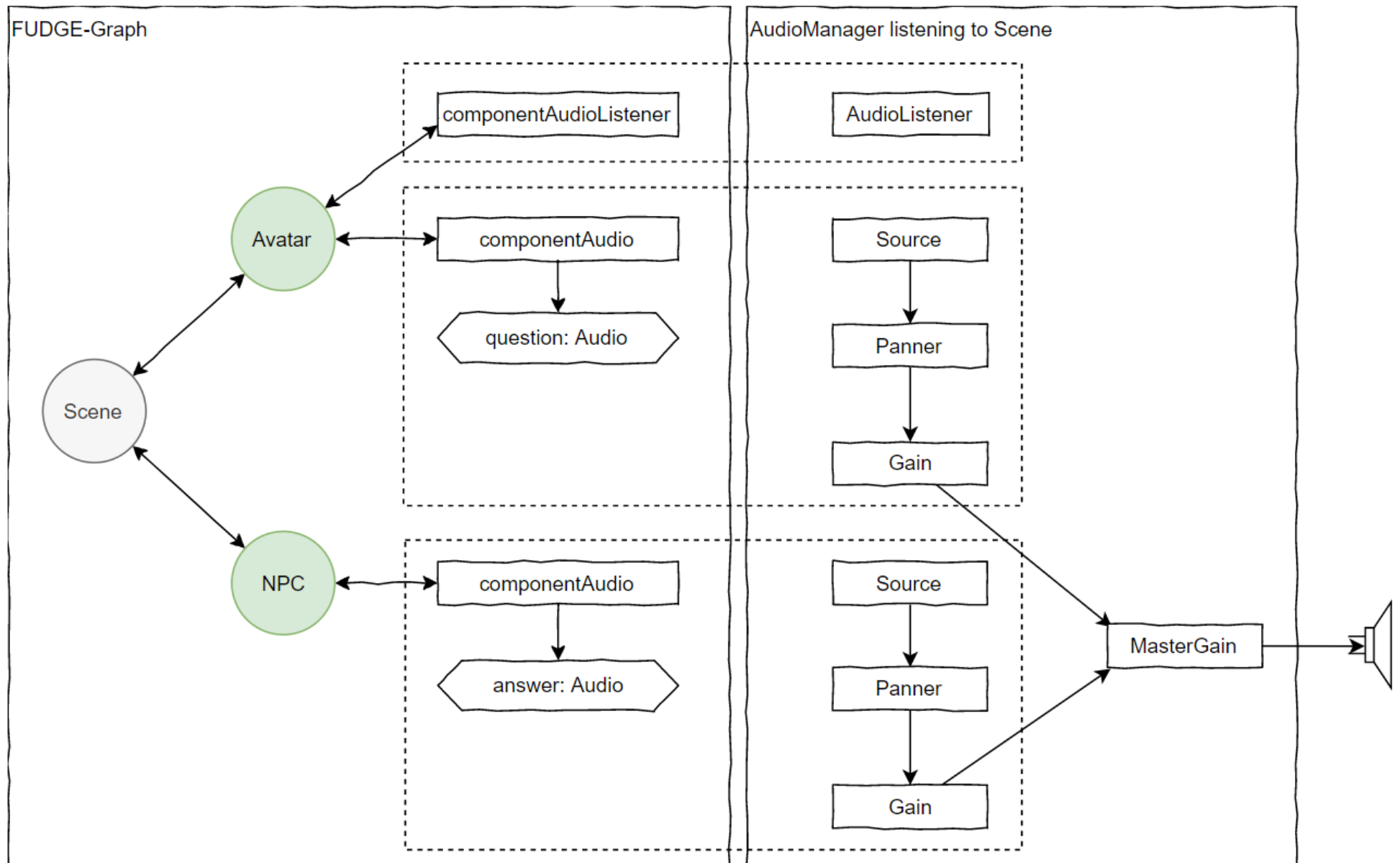
Framing



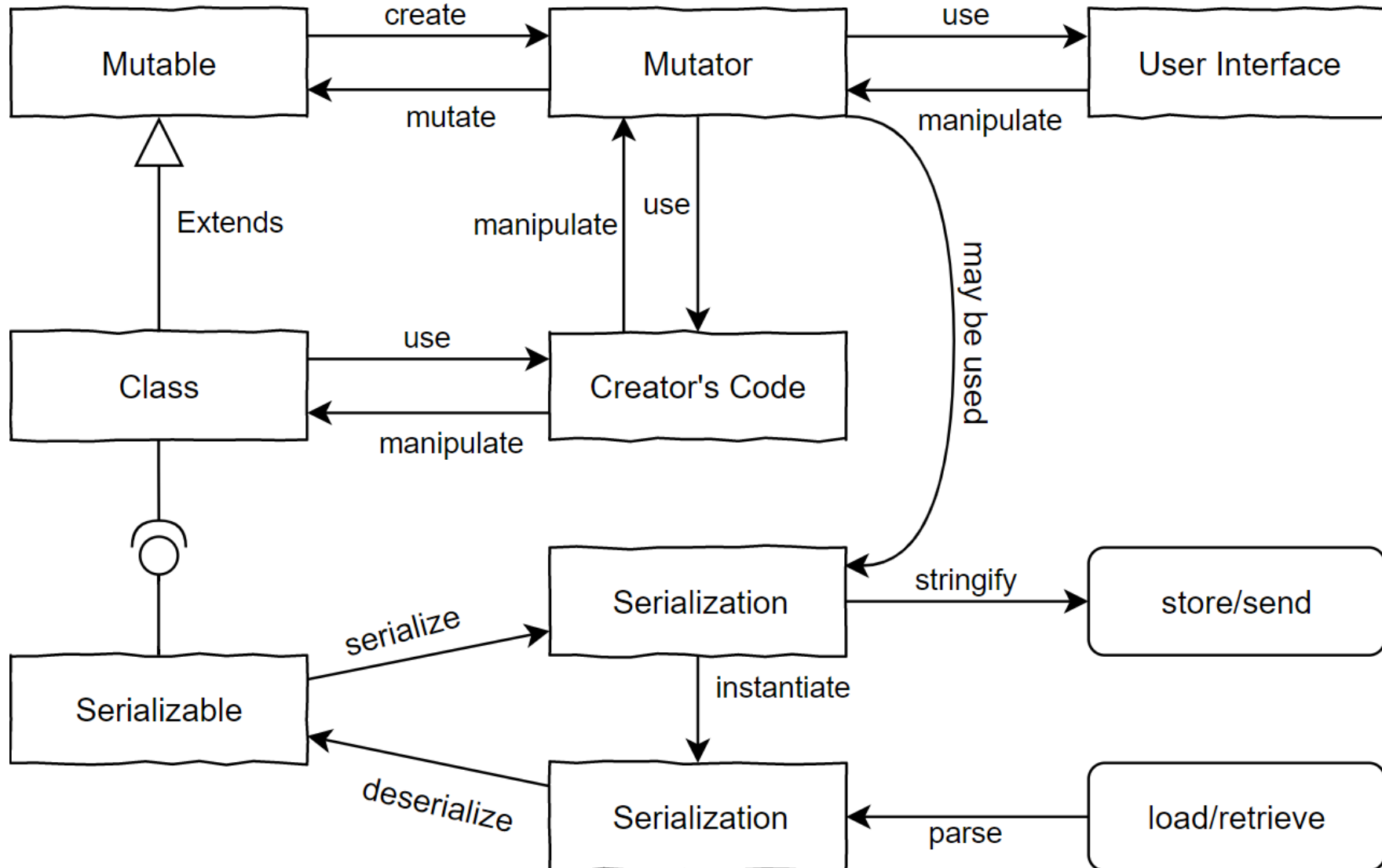
Event



Audio Management



Mutation & Serialization



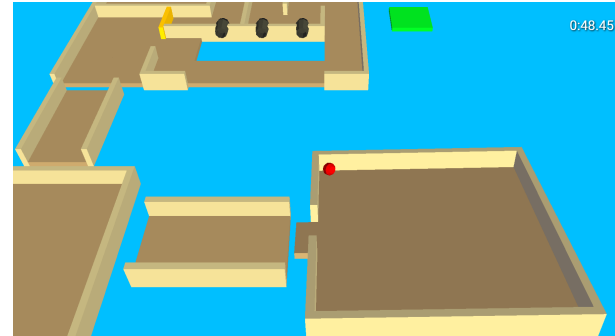
Status 8.21

	Scheduled	Design	Implementation	Integration	Test
Core					X
UserInterface					X
Physics					X
Network				X	
Key-Animation			X		
Animation Editor		X			
Sketch Editor			X		
Modeller			X		
Importer			X		
Modular Shaders			X		
Particle System				X	
Particle Editor	X				
Skeletal System	X				
Visual Novel Module					X

Examples



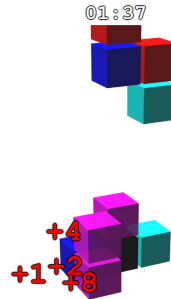
UfoundLost | GGJ21



MazeBall | S21



Enter the Asteroids | S21



Craftris | W19



Jump & Fight | W20

Thanks!

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