

The Shards of Mt. Lampora

Platforming with Modular Music in Elm



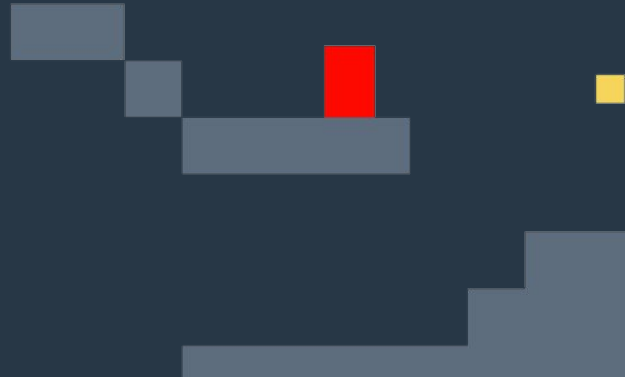
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Functional Programming Challenges

Need fast
rendering



*Canvas API,
Tilemap culling*



Functional Programming Challenges

[moojee](#)

Lots of
interrelated
parts



Entity-Component-System

Entities

IDs (integers)

Components

appearance, bounding box, physics (velocity, acceleration, grounded), user control, shard

Systems

gravity, movement, tilemap collision, shard collision, user input, zone detection, rendering



Modular Music

Zone	Additional Instruments
Outside	Low Piano
Cave, Inside Mountain	Low Piano, Tuba
Top of Mountain	High Piano, Sleigh Bells, Chimes

Level	Shard Count	Additional Instruments
0	0, 1	Oboe, Clarinet, Bassoon
1	2, 3	Violin, Cello
2	4, 5, 6	Flute, Drums

