



University of
Zurich^{UZH}

A brief overview of useful game development tools

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- BA in History, Comparative Literature, Human-Computer Interaction
- Hobby game developer



Goals of this presentation

- Introduction to different tools
- Low barrier of entry
- Free and often Open Source
- “Game engine”
 - Software that allows the creation of a game without doing everything “from scratch”



Lives in Transit

Text adventure for history students

- Developed at the history department of UZH, together with external companies
- SNF funded
- Learning about the research process
- “Roleplaying” as a PhD student
- Fun, but also stressful

→ <https://livesintransit.org>

Welcome

Partners

Cliving LiT

About

FAQs

Welcome to Lives in Transit!

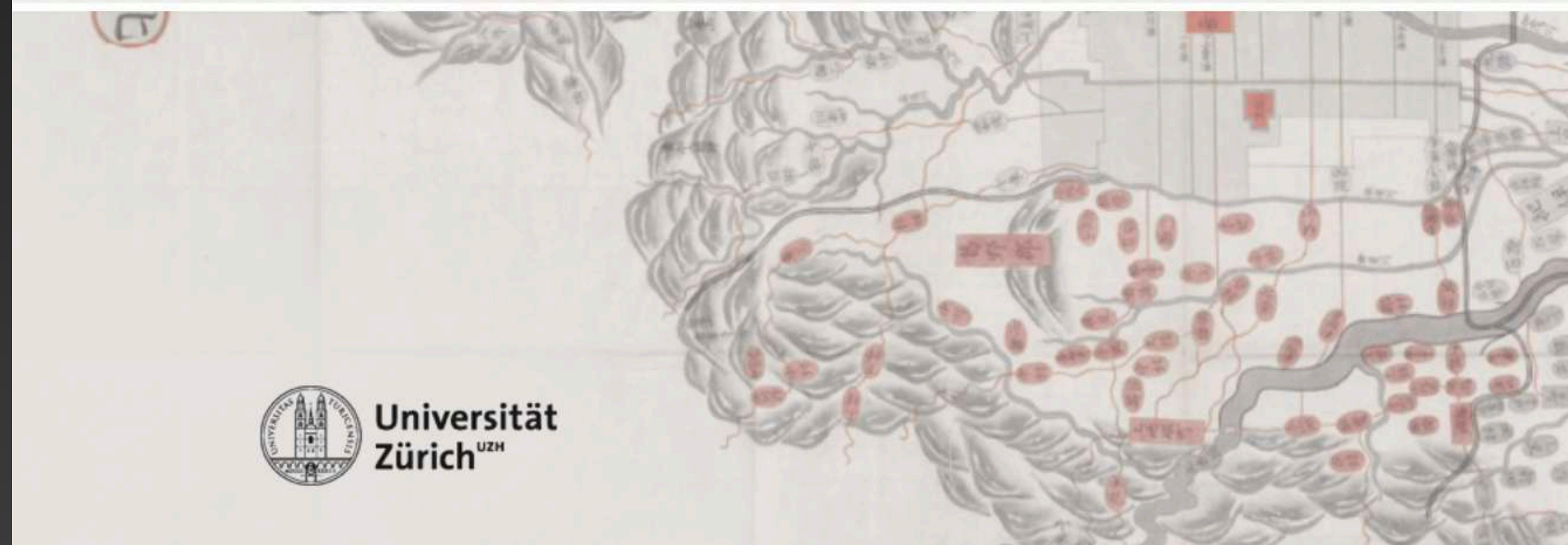
Lives in Transit (LiT) is an interactive, text-based game which simulates the experience of researching and writing global history.

As a player, you will adopt the role of a university graduate student, choose a research topic, and work through a challenging set of storylines. In each topic, you'll collect real historical sources and create a record of how your thinking changes during research. Your ability to progress will depend on your interactions with a set of fictional characters—in the university, in museums or in the media, and in the archives. Like this historical map of Japan's Yamashiro province, your research landscape will change as you decide which road you'll take.

You can play LiT from your computer (but not yet from mobile devices). After you have logged in with your player name, you can choose either to play individually or to set a topic as a class exercise for your students.

We hope you learn and have fun. Please feel free to give us feedback on Twitter via our handle, [@transitlives](https://twitter.com/transitlives)

The LiT Team, University of Zurich



Choices



The scenario...and questions (1/3)

The scenario: You're an early-stage PhD student. Just seeing that sentence gives you the shivers: who would have imagined that, having graduated from an upwardly-mobile but still second-rate provincial university (which shall remain nameless), you would find yourself here, under the supervision of the world-renowned Professor Meredith Moira? What a privilege! What a success story you are turning out to be, making your family back home so proud!

At least, that is one reason for your shivers. The other is that, despite your undoubted potential, you're actually somewhat overwhelmed. Your application to study with Prof Moira had been full of references to *entangled histories* and *connectivities* and *transculturonomies*, but you still aren't sure what any of these words (especially the last one) really mean. Professor Moira, who is not averse to using a bit of jargon herself, looks at you with shining eyes when other PhD students use such terminology during her weekly postgraduate colloquium. When she does so, you tend to...

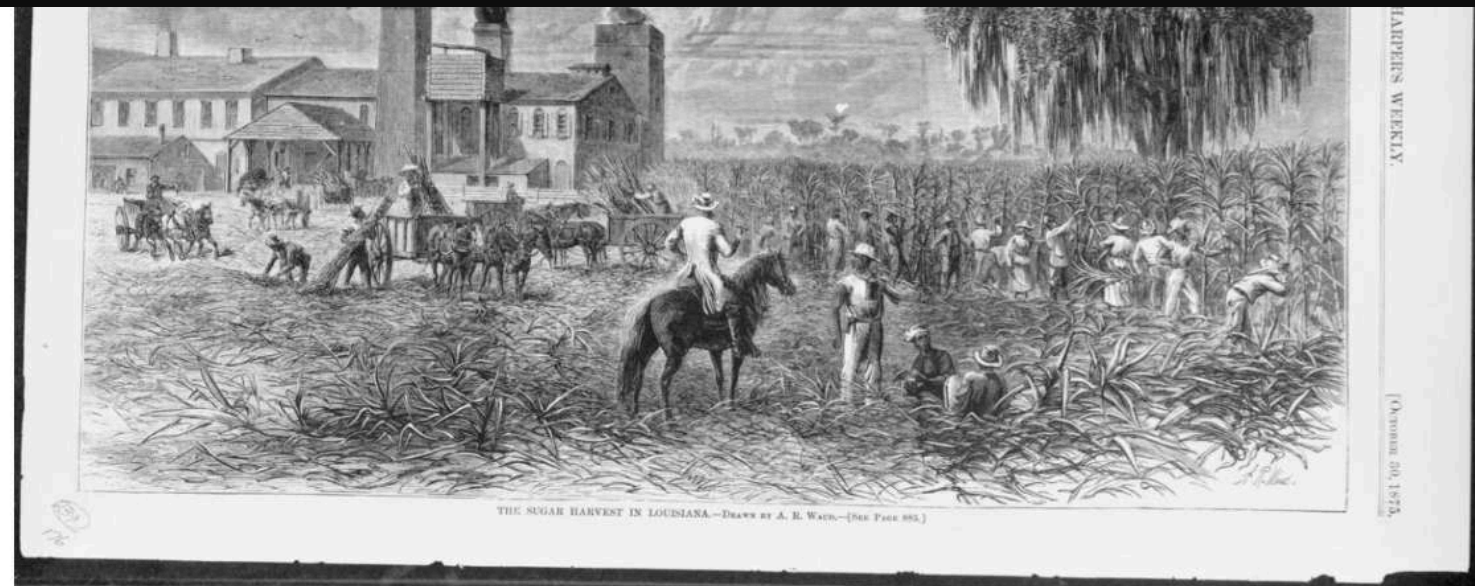
...nod enthusiastically and open your notebook as if to check a reference

...murmur "yah" and "entangularities"

...try to direct Prof Moira's direction towards your friend Dani, who speaks jargon like a native

...sigh impatiently and ask, "yes, but what about the sources?"

Notebook



A.B. Waud. "The Sugar Harvest in Louisiana". 1875.

The "Race and Face" presentation begins. (Whether you finished them in time or not, your notes have been saved to your Notebook, which you can open by clicking on the right-hand side of the page now. You can add to the Notebook at any time, e.g. by adding to your previous or current inputs; and you can download your Notebook as a PDF at any time. If you are playing this topic as part of a class assignment, remember that your teacher will be able to see your Notebook entries at the end of the game.)

The speaker, a PhD student at the University of Hawai'i, starts by saying that, as an Asian-American, the question of race and face are personal to her. Her great-great-grandparents emigrated from Japan to Hawai'i in the 1890s. Hence her first slide, which shows an iconic plantation scene from Maui in the 1880s. (Of course! You knew it didn't quite look like a Caribbean setting...) *Maui*—what a strange coincidence. But before you can think any further, Ms Okada has already moved on and is talking about a new image. This is a sketch which she says appeared in *Harper's Magazine* in 1875, ten years before the Hawaiian painting. She points out some similarities between the two images, including the overseer on horseback; but she also suggests a key difference, namely the prominent place of the sugar mills in the background. She agrees with Sidney Mintz, in that these mills were the factories of European industrialization *avant la lettre*.

The presentation continues...

Initial thoughts on "Race and Face" painting



Notes on the presentation

Autosaved ✓

Create new note



E-Mails



Mail-Inbox

Natalie Tasukarru

Boss heads-ups

Natalie Tasukarru

Reply

Boss heads-ups

Hi L,

I hope all's going well at the conference. This is just a quick one to let you know that Prof Moira is on the prowl for unsuspecting PhD students. She's looking for "volunteers" to help prepare some of her teaching for her Block Seminar in two weeks. I know you've got plenty of other things going on at the moment but she told me she would be in touch.

Just FYI. No need to reply!

Let me know when you're back and hopefully we can get a coffee.

Best,

Natalie

Dr. Natalie Tasukarru

Postdoctoral Assistant, Department of History

Reply

Twine

Hypertext Games

Flexibility ●●○

Coding knowledge ●○○

Support ●●●

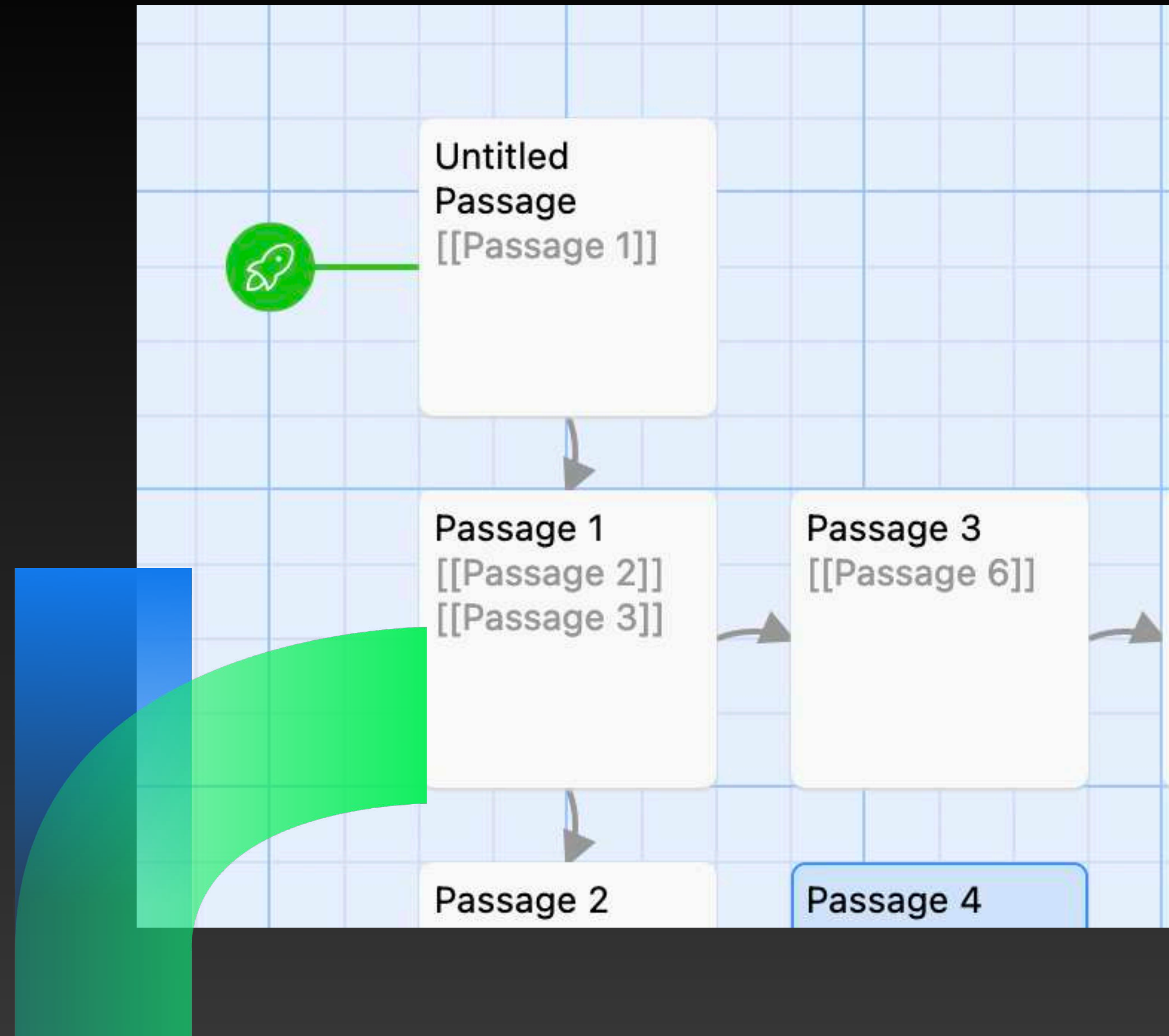
Analytics ●○○

Browser, Windows, OSX,
Linux,

GUI, Markup, HTML, CSS,
Javascript

- Choice-Based and Hypertext games
- Text and images
- Very easy to use, large community

➔ <https://twinery.org/>





Depression Quest

an interactive (non)fiction about living with depression

by zoe quinn patrick lindsey isaac schankler

show menu

Even though you love your family, you really feel like they don't know you at all sometimes and this makes them exhausting to be around on nights like this. You wish you could tell them what you are feeling. That sometimes it feels like you're lost in the woods, and that if you were to drop dead in your apartment the world wouldn't notice. You want to make her understand that more often than not, you feel like an alien, like there isn't anywhere in this world that feels like a place where you belong, and you have no idea how to fix it or what to do. You wish you could find the words so they would understand you, but you end up feeling like an outsider instead.

Instead, you decided to remove yourself from the situation and calm down. You couldn't see a resolution where attempting those things would work, and you needed a moment of space instead.

You hear a knock on the door.

Malcolm's voice comes through the door. *"Hey kiddo, you alright in there? You've been in there for a while."*

"Yeah, I was just feeling a little sick."

"Well, if there's anything I can get you let me know. They're about to serve pie though, if you're feeling up to it."

"Yeah, I'll be out in a minute."

Malcolm is quiet for a moment. *"Hey, just so you know... I'm really proud of you."* You hear his big

Do you...

1: Suggest a change of location and confide in her honestly.

2: Test the waters and open up a little, hoping she'll understand.

3: Insist that nothing is wrong and change the subject.

4: Defensively ask what she means by that.

5: Notice that your hands are shaking.

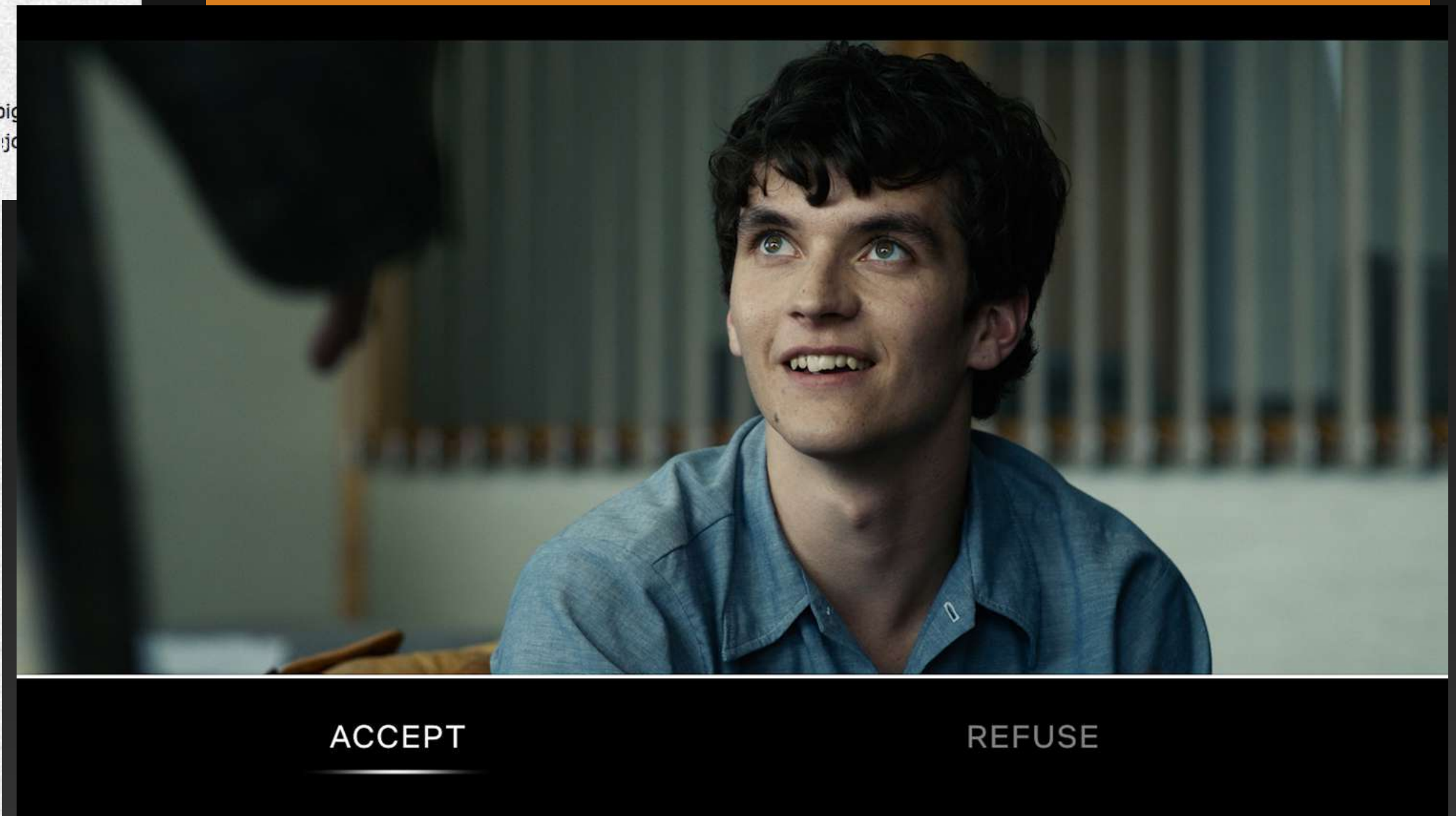
You are deeply depressed. Even activities you used to enjoy hold little or no interest for you, and you exist in a near-constant state of lethargy.

You are not currently seeing a therapist.

You are not currently taking medication for depression.

Even Cowgirls Bleed

It's the usual story. You're a big city girl with a closet full of fancy dresses but not a whole lot of sense, and lately all you've wanted to do is trade in your lonely winters for some real adventure. Well, consarn just wanting, you say!



Bitsy

Pixel Exploration Games

Flexibility ○ ○ ○

Coding knowledge ● ○ ○

Support ● ● ○

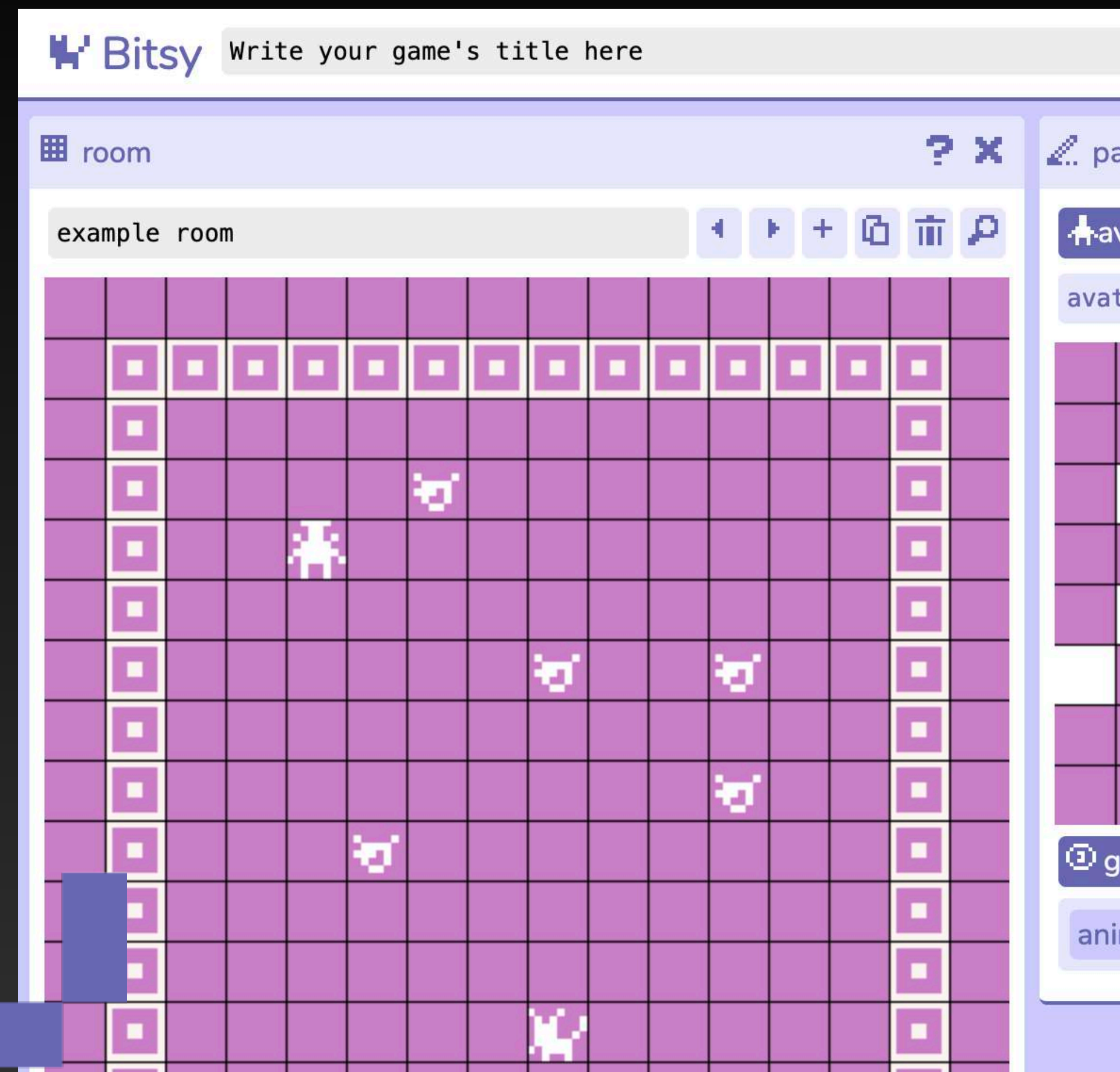
Analytics ○ ○ ○

Browser

Scripting language

- Character walking around in a world
- All-in-one tool, engine comes with all required features (image editing, music composer etc.)
- Limited content types

→ <https://make.bitsy.org/>





Inform 7

Natural Language Games

Flexibility ○ ○ ○

Coding knowledge ● ● ○

Support ● ● ○

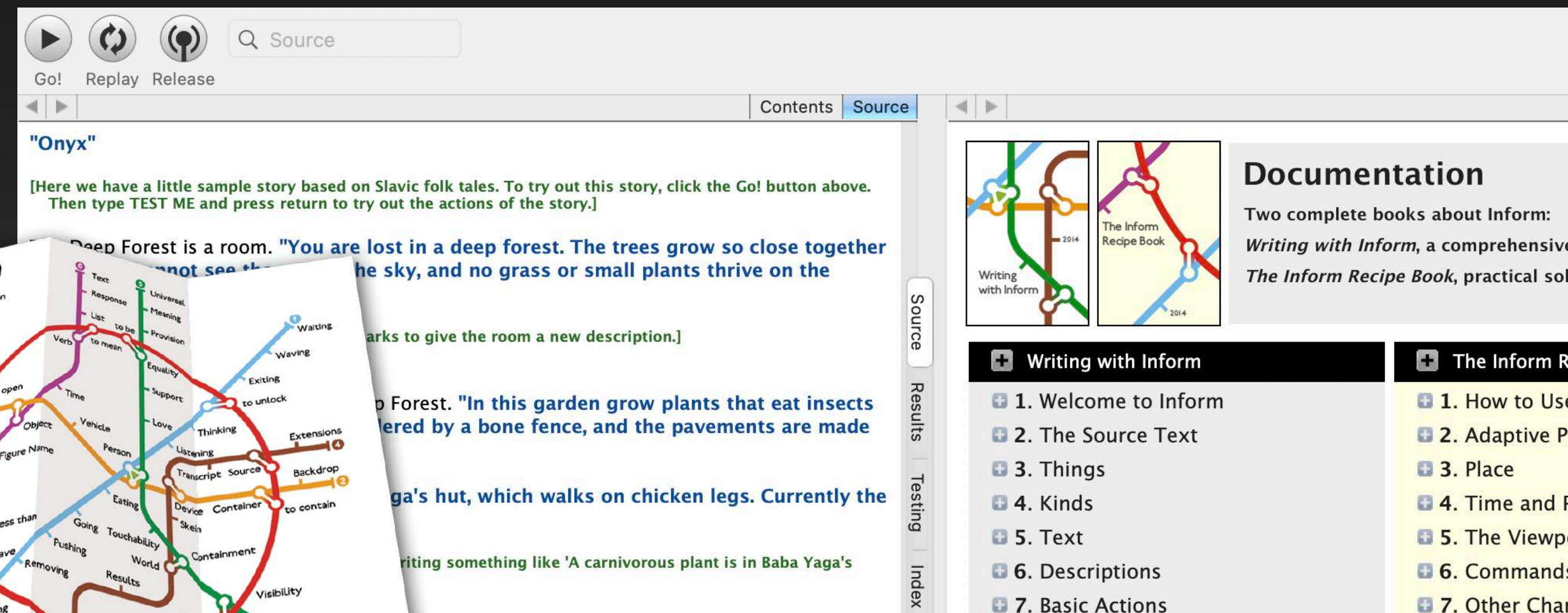
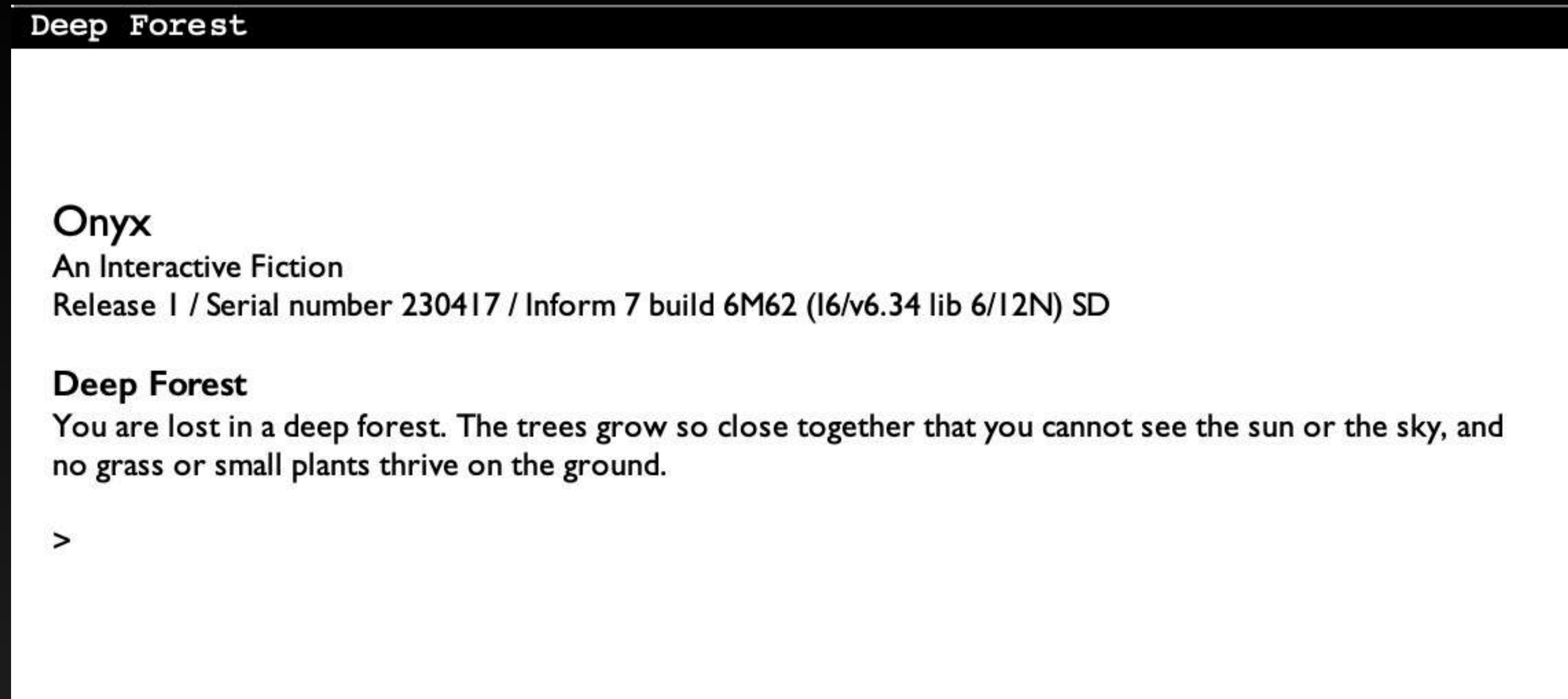
Analytics ○ ○ ○

Windows, OSX, Linux,

Scripting language

- Parser games
- User interacts through text input
- Form of game that has a very long history

➔ <https://ganelson.github.io/inform-website/>



Deep Forest

Onyx

An Interactive Fiction

Release 1 / Serial number 230417 / Inform 7 build 6M62 (16/v6.34 lib 6/12N) SD

Deep Forest

You are lost in a deep forest. The trees grow so close together that you cannot see the sun or the sky, and no grass or small plants thrive on the ground.

>

Living Room

Score: 15

Moves: 23

>take water

You can't reach something that's inside a closed container.

>take bottle

Taken.

>go west

Living Room

You are in the living room. There is a doorway to the east, a wooden door with strange gothic lettering to the west, which appears to be nailed shut, a trophy case, and a large oriental rug in the center of the room. Above the trophy case hangs an elvish sword of great antiquity. A battery-powered brass lantern is on the trophy case.

>take rug

The rug is extremely heavy and cannot be carried.

>open case

Opened.

>take sword

Taken.

>

Ren'py

Visual Novels

Flexibility ●●○

Coding knowledge ●●●

Support ●●●

Analytics ●○○

Windows, OSX, Linux,

Python

- Visual novel, interaction through text choices
- Focus on visual aspects
- Large community

➔ <https://www.renpy.org/>

```
# The game starts here.
#begin start
label start:
#end start

scene bg washington
show eileen vhappy
with dissolve

# Start the background music playing.
play music "sunflower-slow-drag.ogg"

window show

e "Hi! My name is Eileen, and I'd like to welcome you to the Ren'Py tut

show eileen happy

e "In this tutorial, we'll teach you the basics of Ren'Py, so you can m

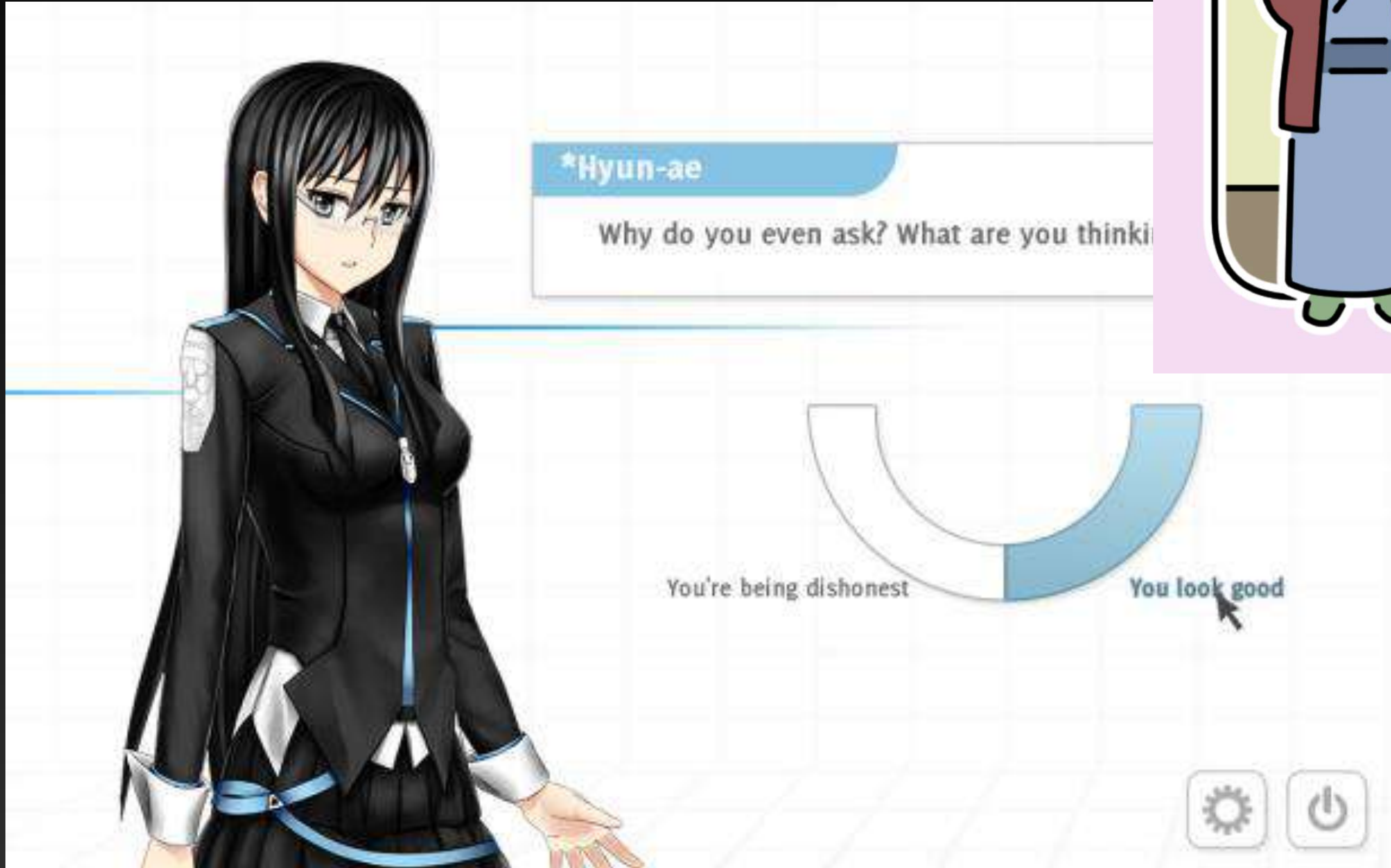
label tutorials:
```



Eileen

In this tutorial, we'll teach you the basics of Ren'Py, so you can make games of your own. We'll also demonstrate many features, so you can see what Ren'Py is capable of.

Back History Skip Auto Save Q Save Q Load Profr



Analogue: A Hate Story, Christine Love, 2012 / One Night, npckc / Butterfly Soup, Brianna Lei, 2017

Reading and Research

- Game-Based Learning UZH
<https://www.gbl.uzh.ch/>
- Game Developer Conference
<https://www.youtube.com/@Gdconf>
- IFComp <https://ifcomp.org/>
- Emily Short <https://emshort.blog/>



Questions?