

Tutorial and Help

v. 1.3



Overview

- This editor has been created to enable content generation for an iOS/Android game
- The mobile game is built in a Unity project
- The editor is a stand-alone Java program
 - The game logic can be tested and debugged inside the editor
 - The game can be played in the editor.
 - Dialog can be generated with text-to-speech
 - The current public version does not provide Unity export. It will be added in future versions.

The game modes

 When the game is played, there are two main modes of interaction



- The exploration mode
 - the user drags his/her finger to find and activate interactables

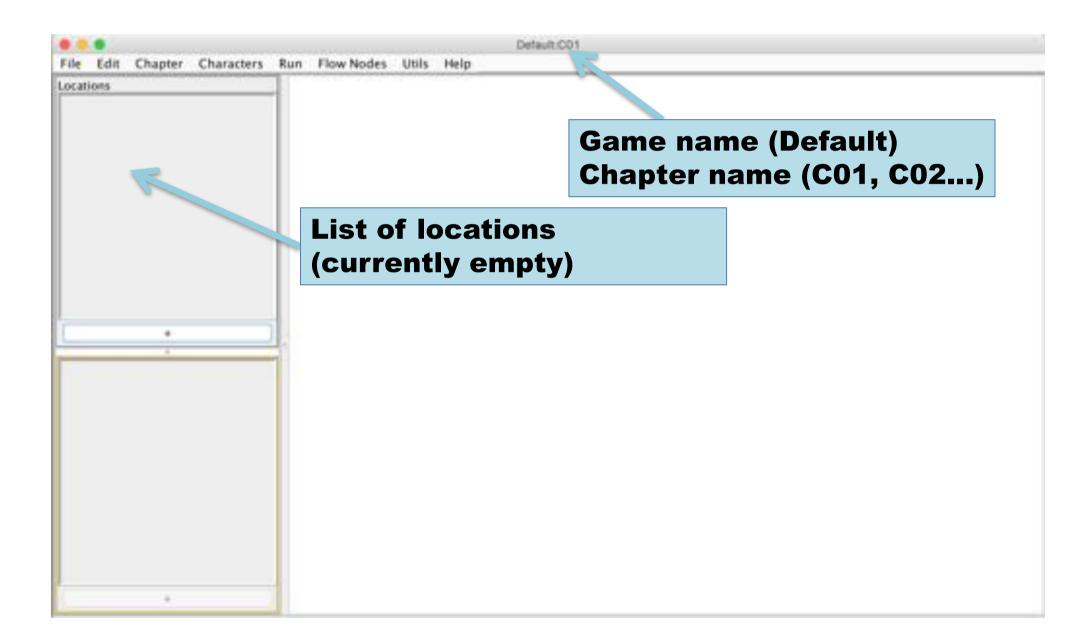


- The dialog mode
 - when an interactable is activated, the user can interact with it through dialogs

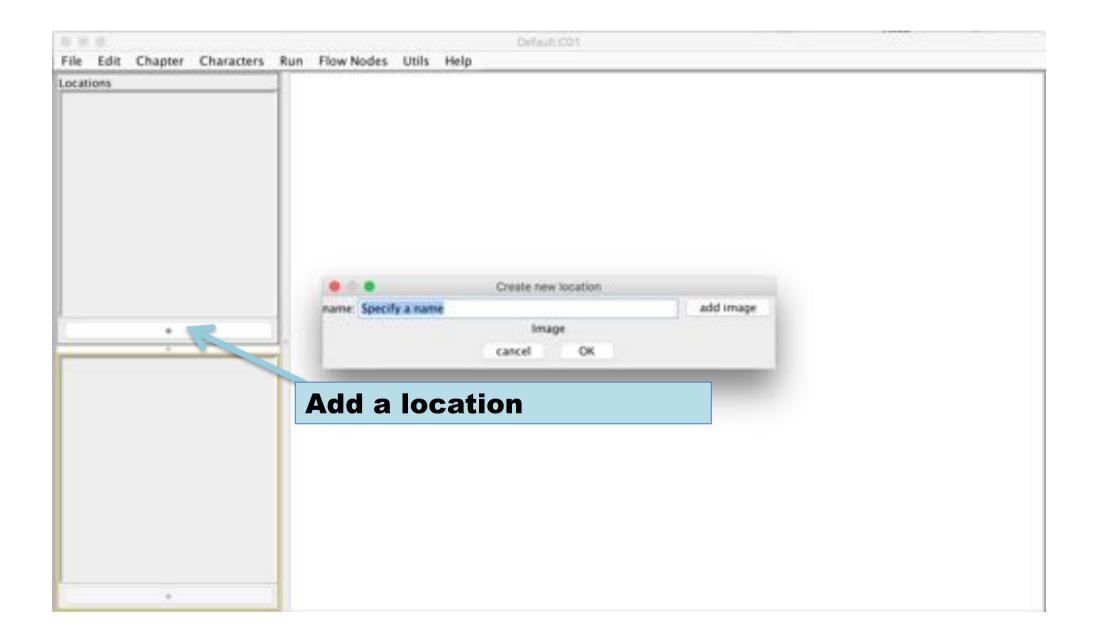
Basic Editing

To add Locations, Interactables, and Characters

Main Window



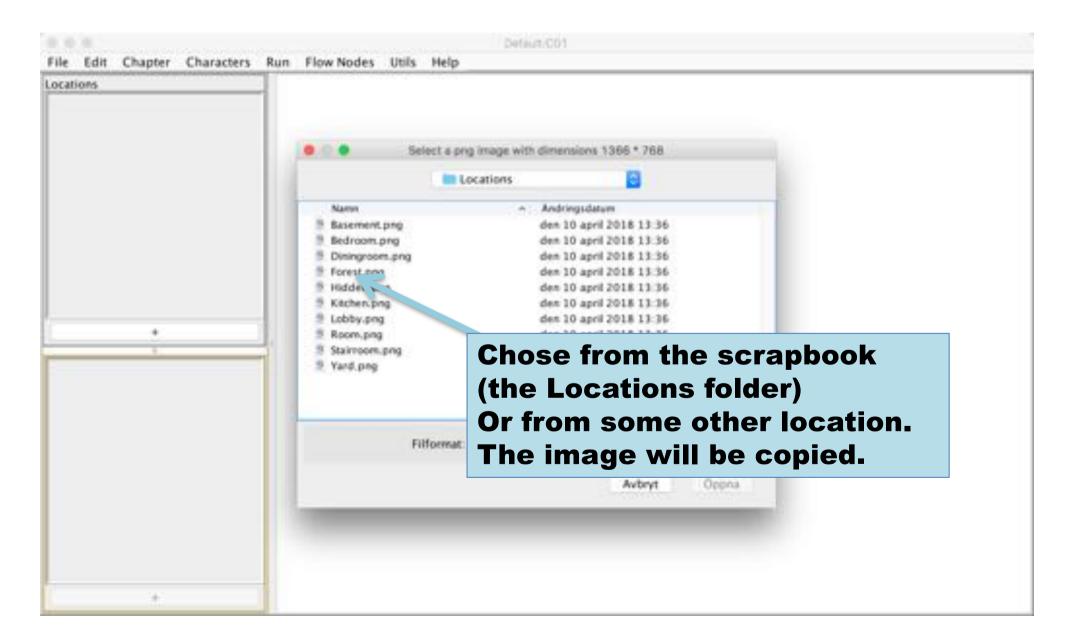
Add a location



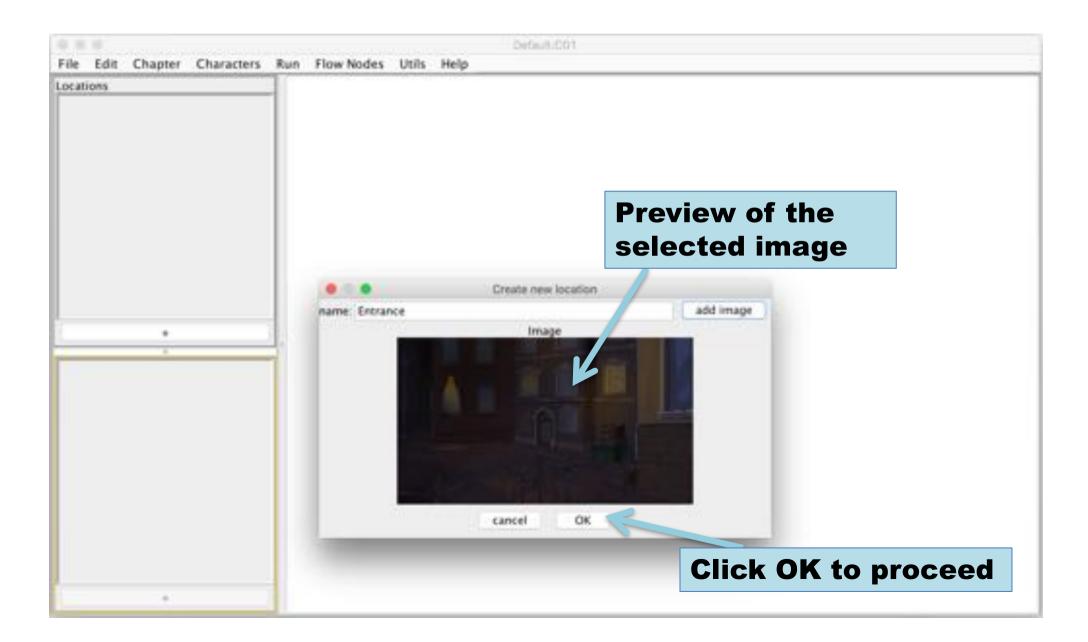
Select a name

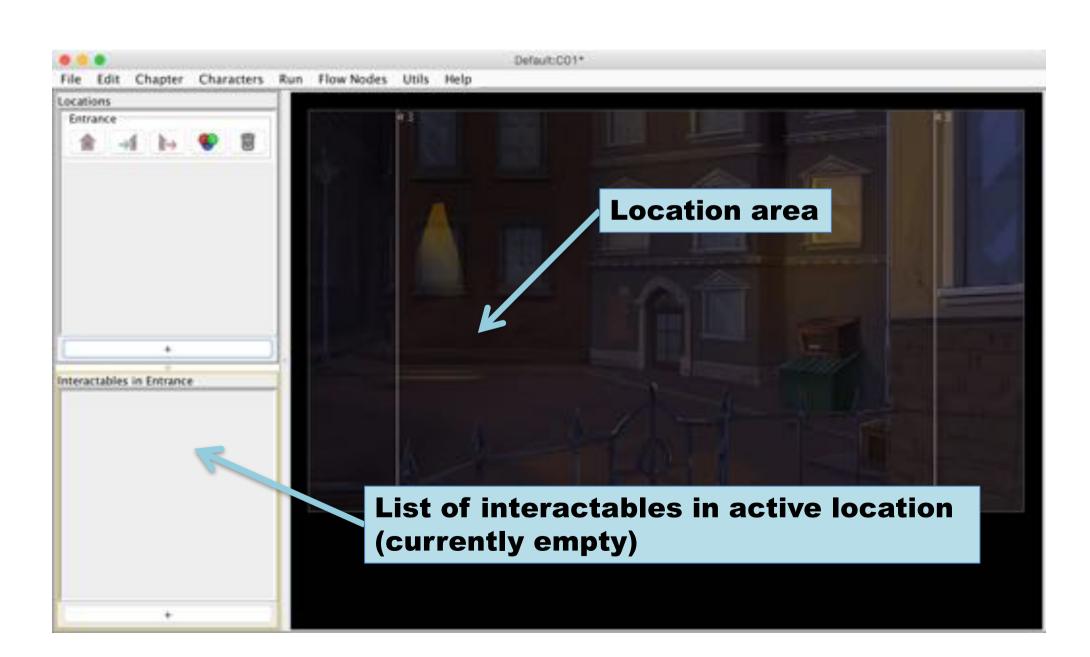


Pick an image file

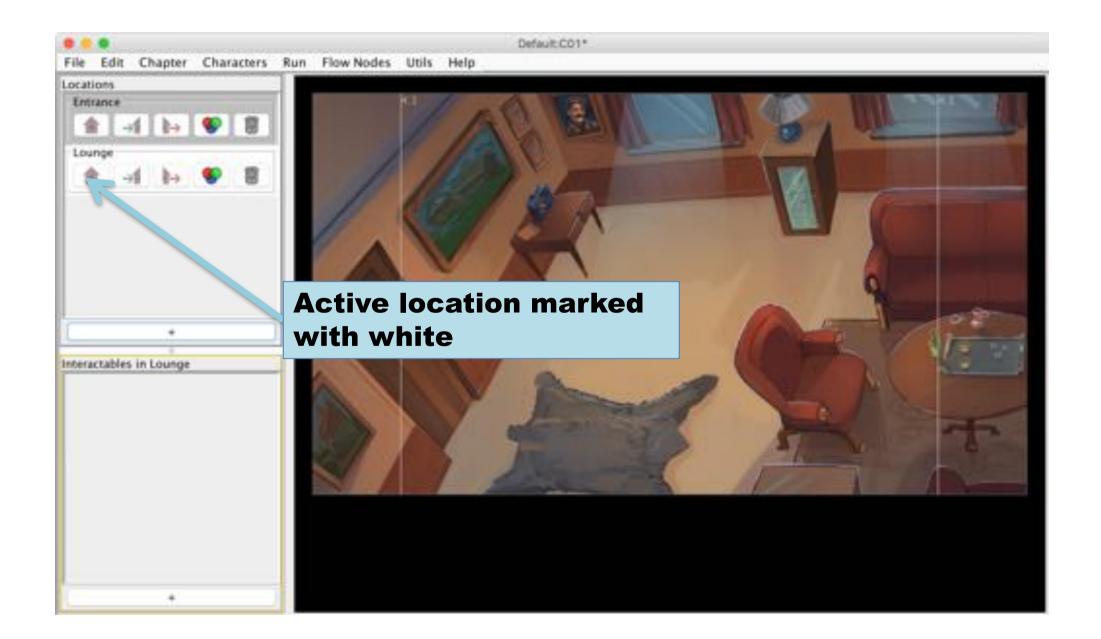


Preview

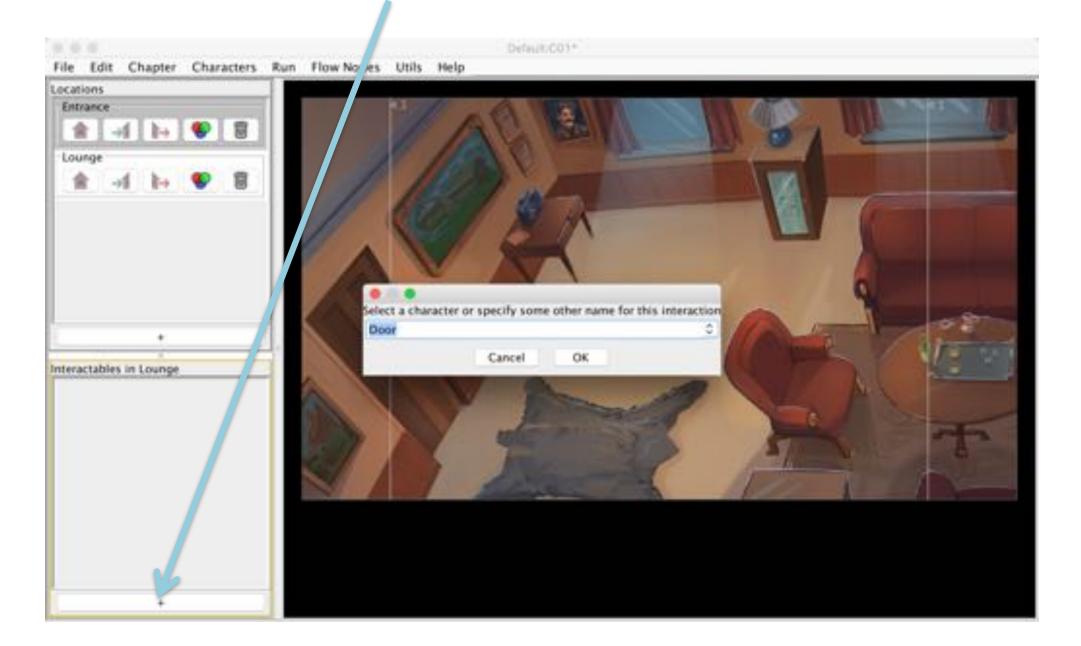




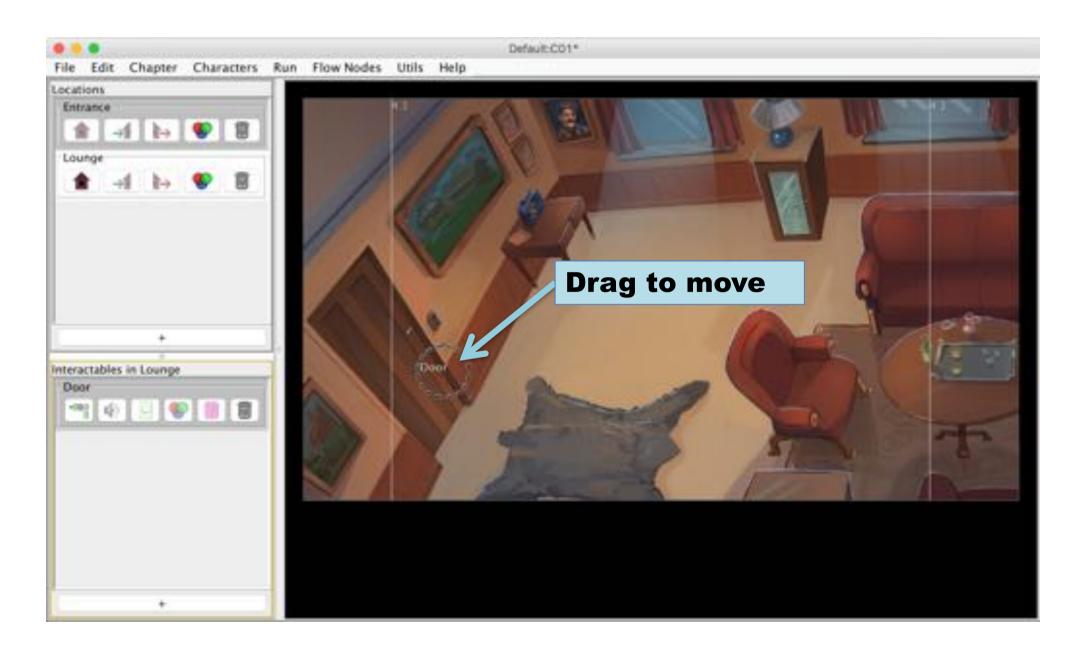
Switch between locations



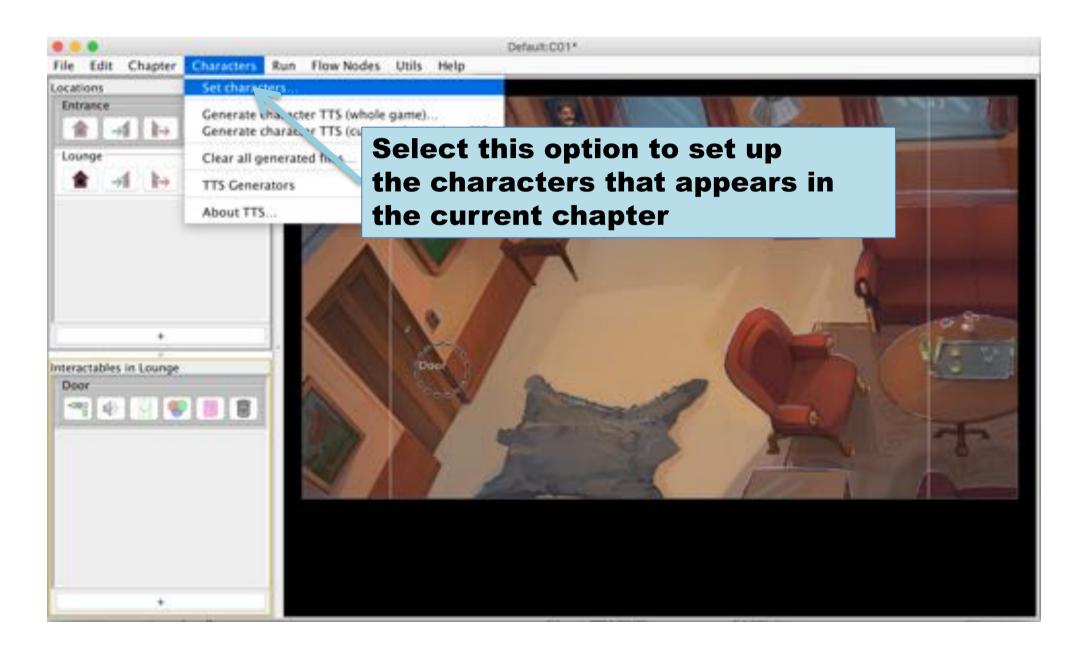
Add interactable

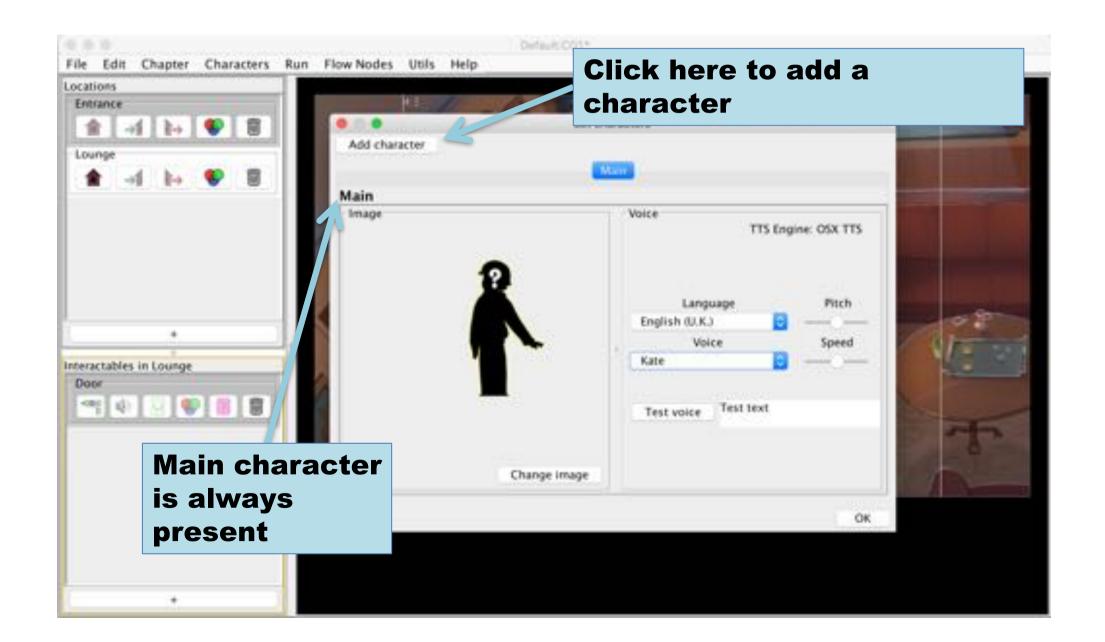


Position of interactable

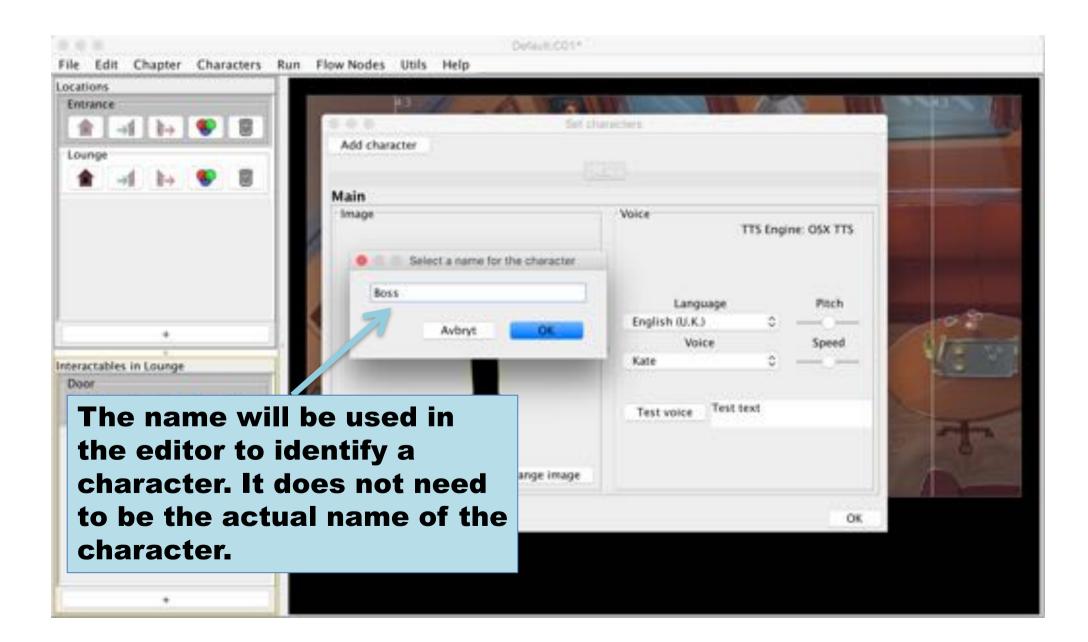


Add characters

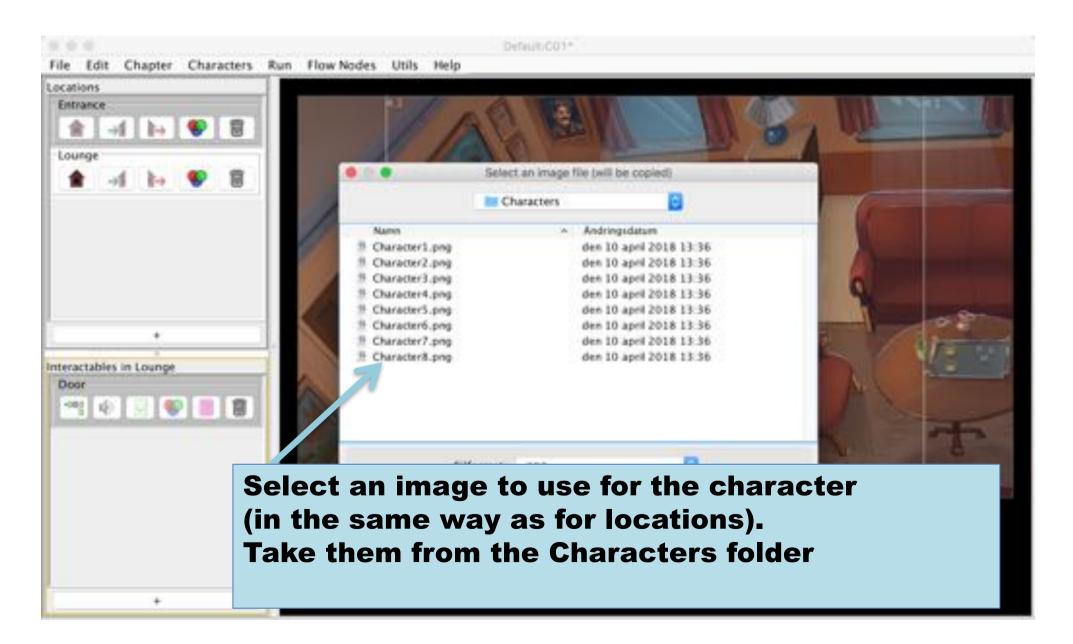




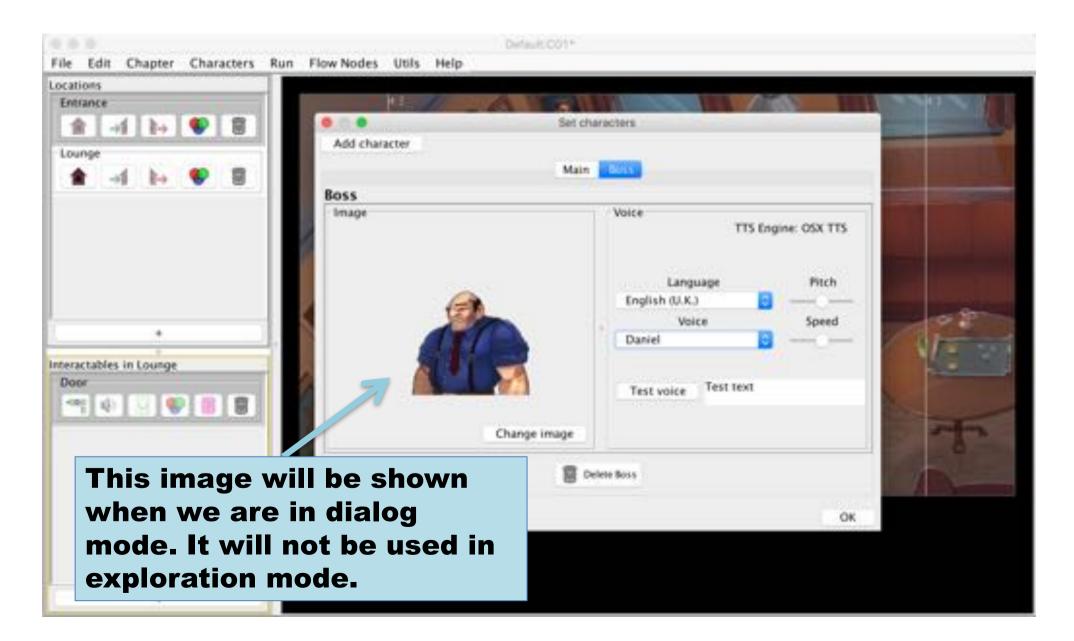
Select a name



Select an image



Dialog image

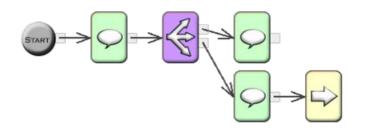


Flow Node Basics

Flow nodes model the logic of interactable

Role of Flow Nodes

- Flow nodes are used to create graphs that models the logic of an interactable
- When an interactable is selected, the game enters "dialog mode" and the start node is activated (the root)
- The graph is then traversed according to the conditions and dialog choices
- When a leaf node (a node without exit connection) is reached, the game returns to "exploration mode"



- Flow nodes are used to create graphs that models the logic of an interactable
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Node types
Act – non-interactive dialog text with actor names



Dialog – a dialog choice with up to four options



Condition – Routes the flow depending on conditional expressions using variables



Fork, or "first time fork" – enables a separate flow the first time the node is visited



Set variable – sets a value to a Boolean variable (true or false)



Transition – changes the active location

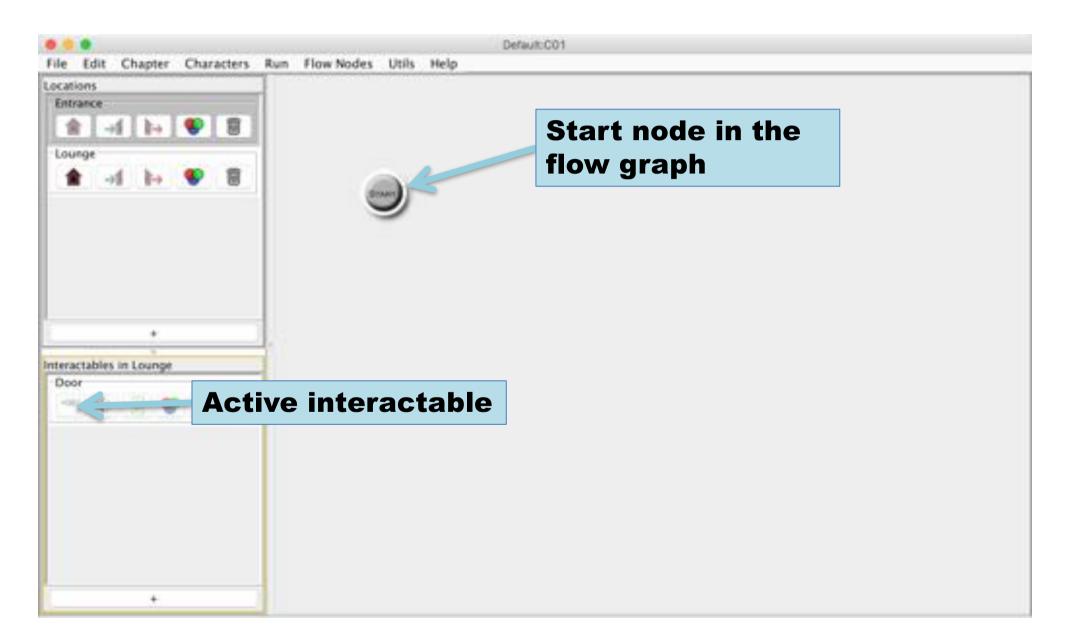


Code – used to control various special interaction in the unity engine. Is used primarily to signal end of chapter

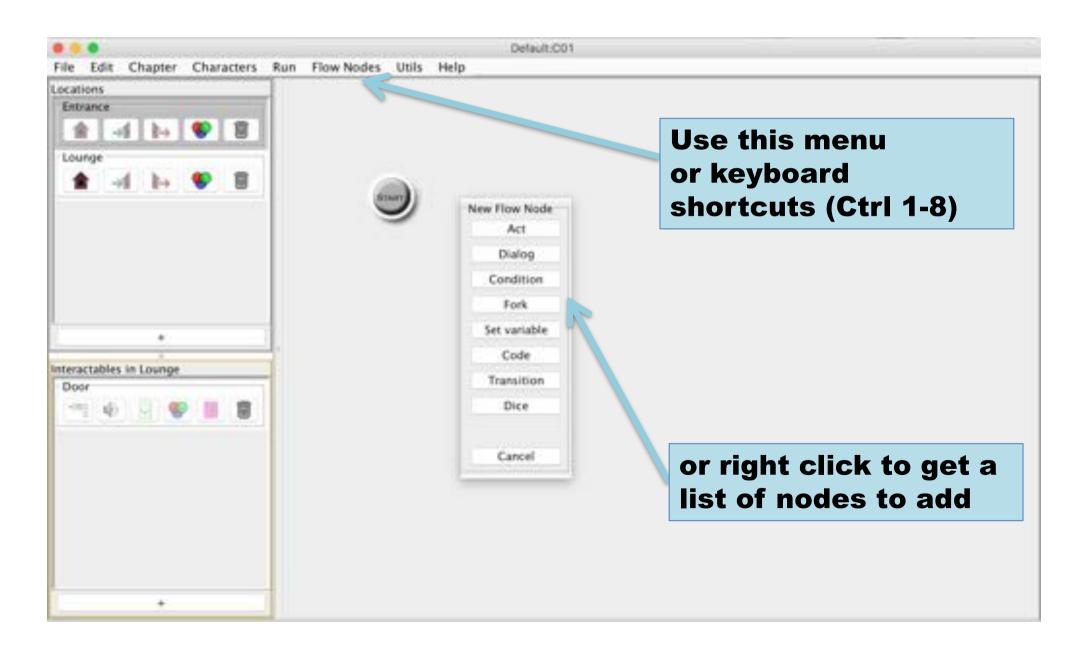


Dice – a random exit is selected

Editing Flow Nodes

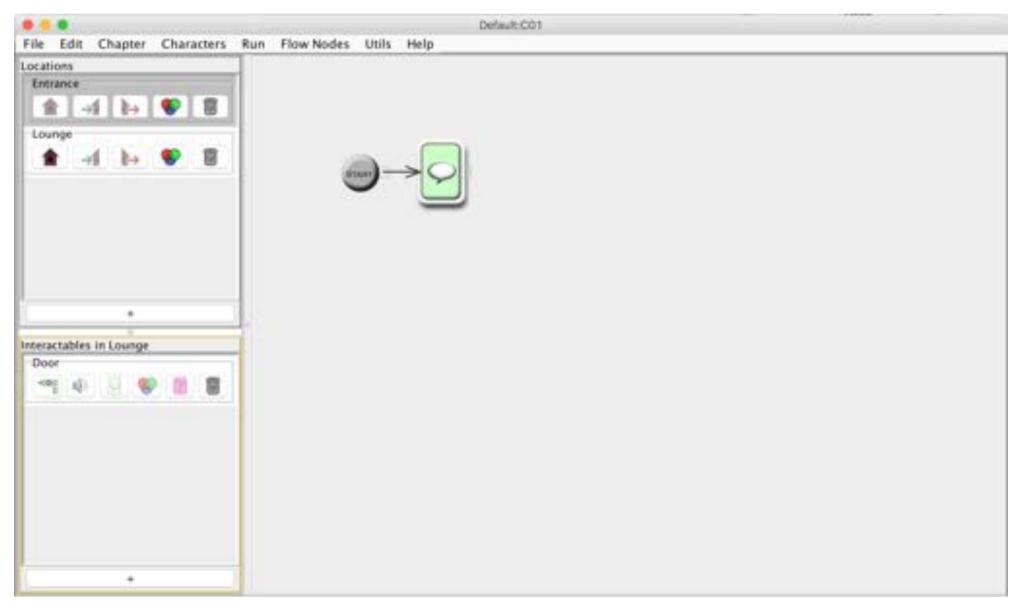


Add a flow node

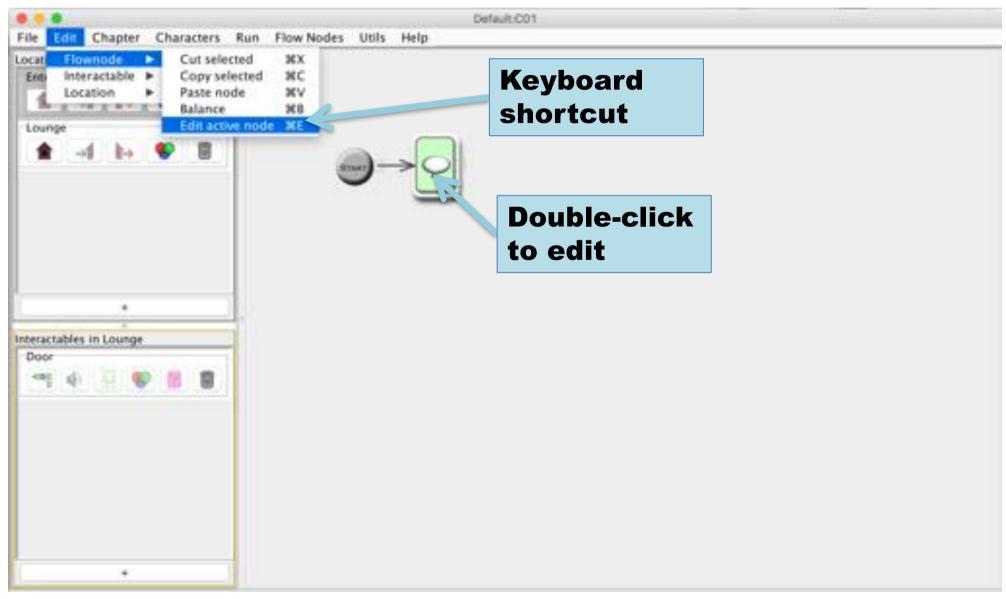




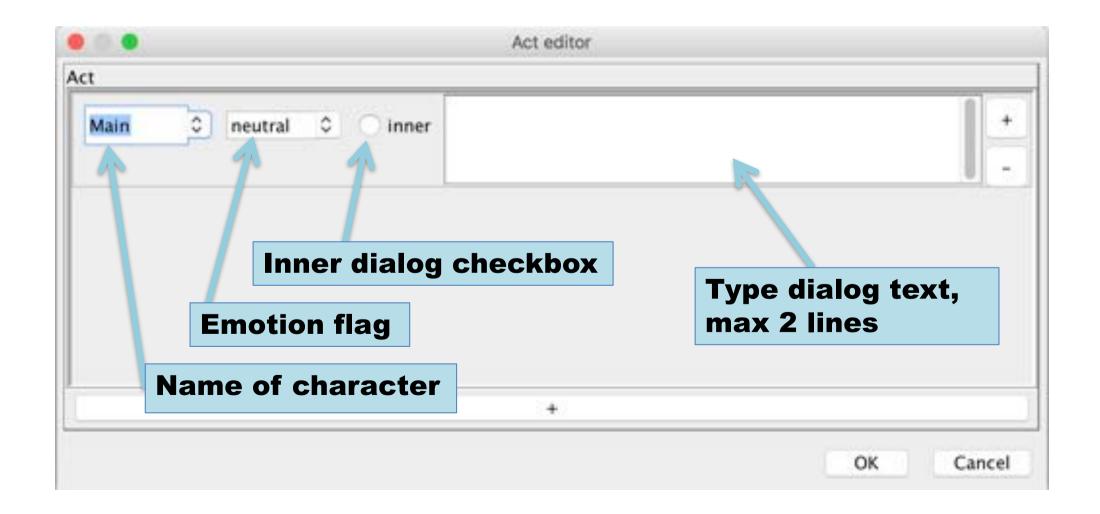
Act node



Double-click to edit node or use ctrl-e (\mathbb{H}-e on mac)



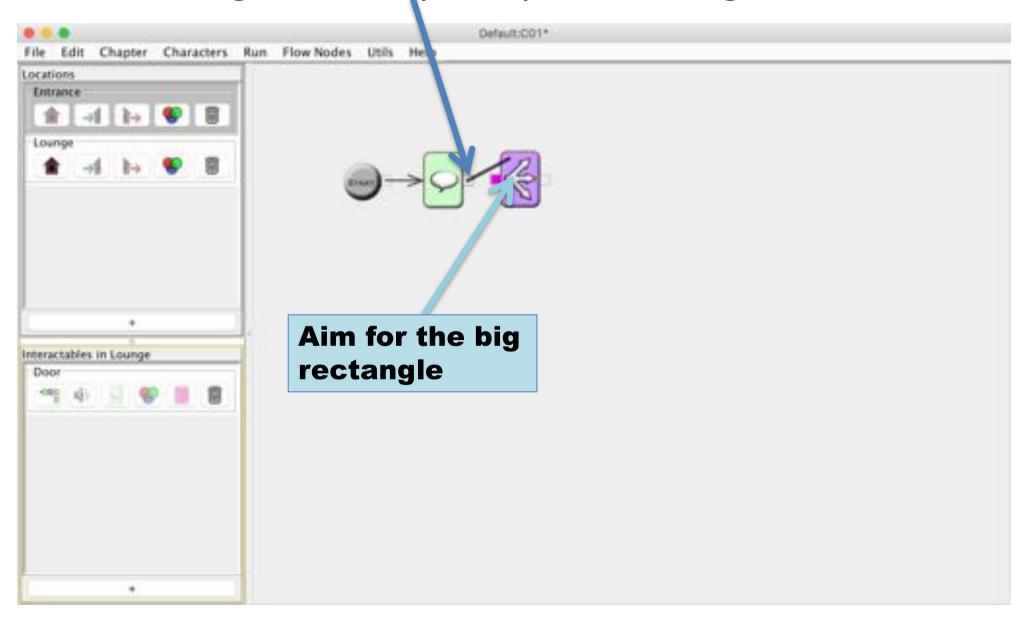
Act editor window



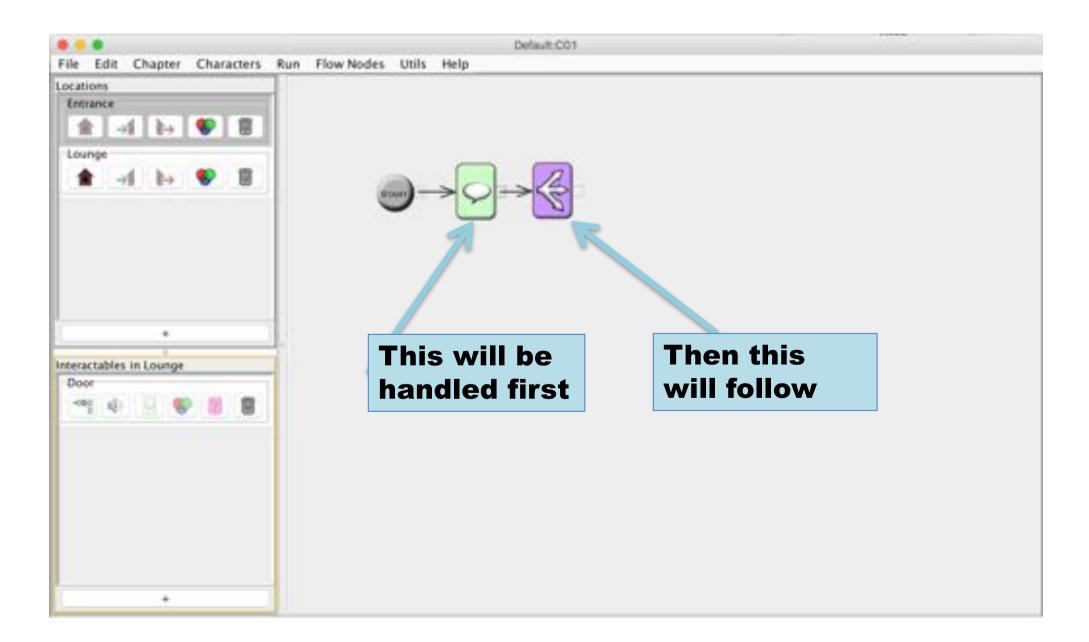
Add rows



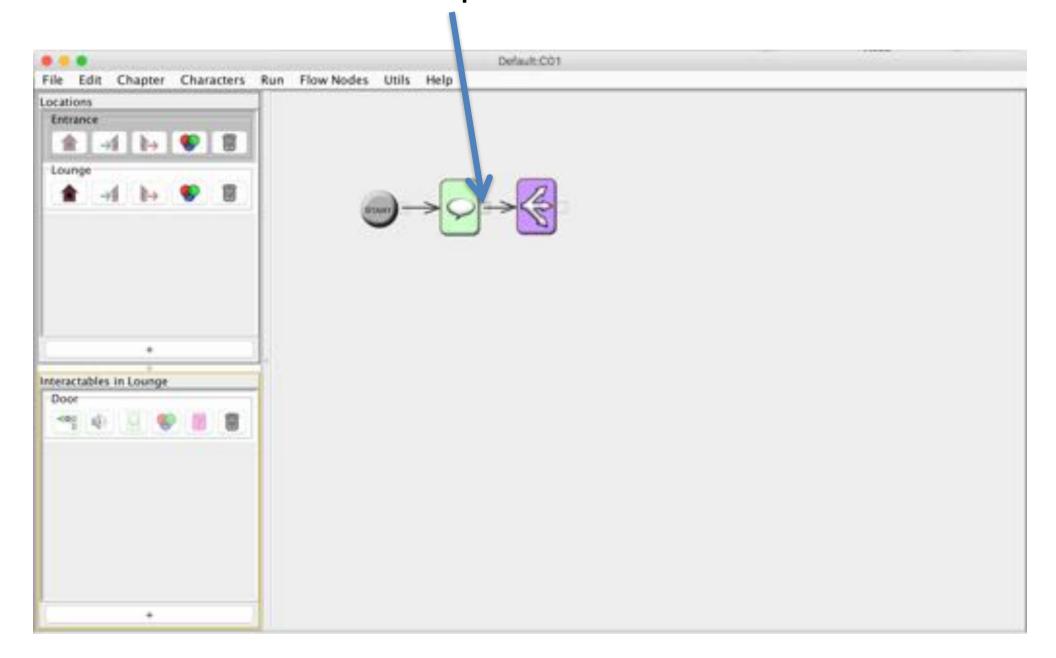
Connect nodes: Drag from output square to target node



Arrows indicate flow

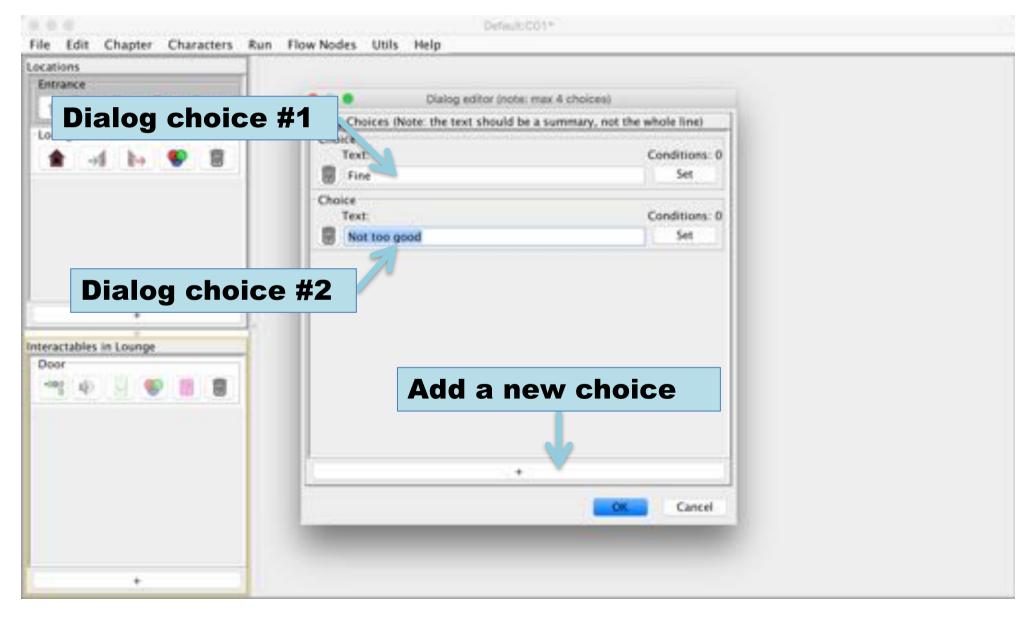


Double-click the square to delete connection

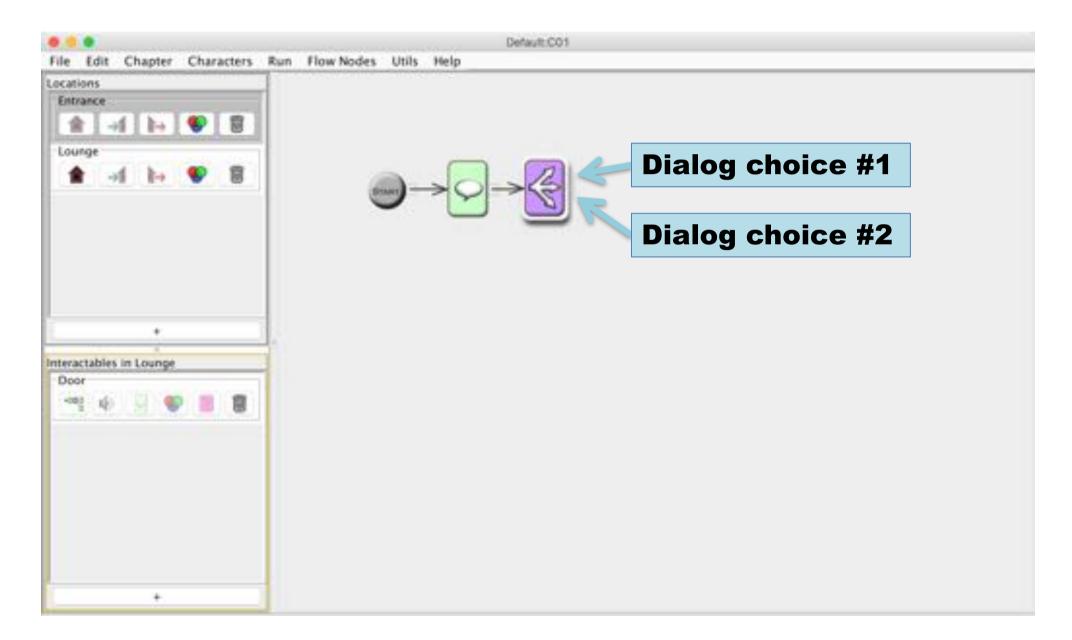




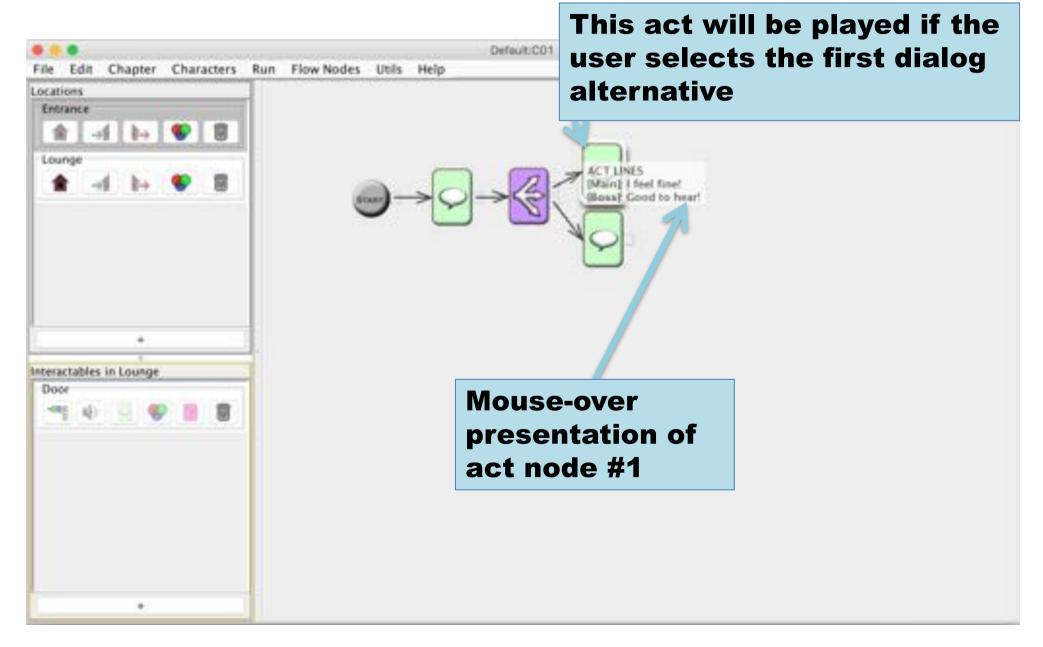
Dialog node

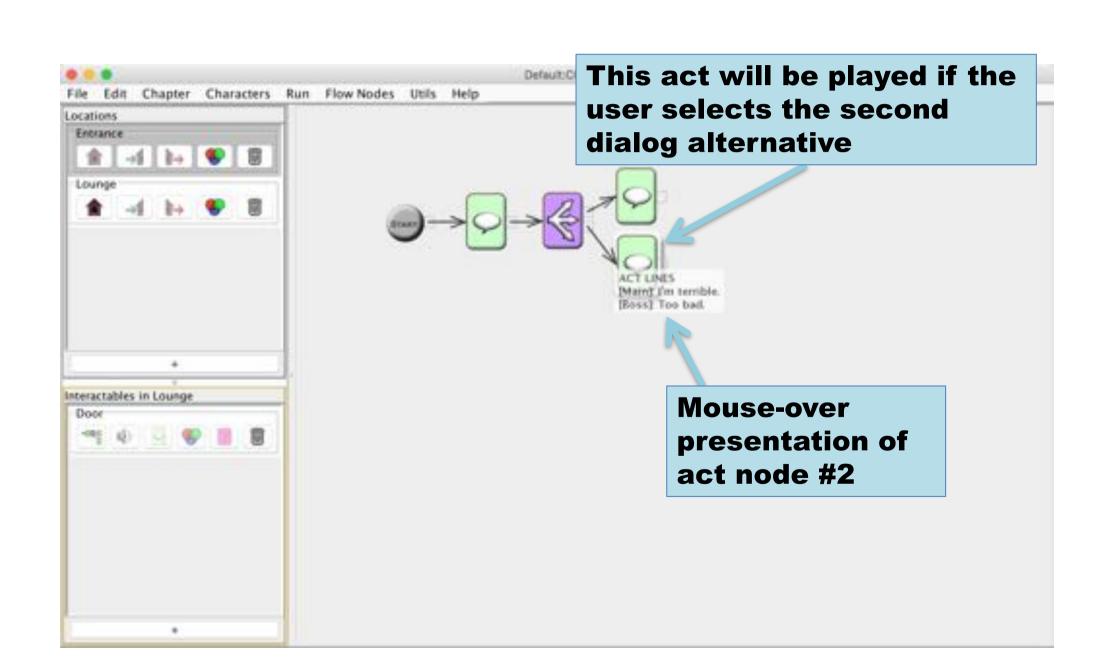


Dialog outputs



Connect output to different act nodes

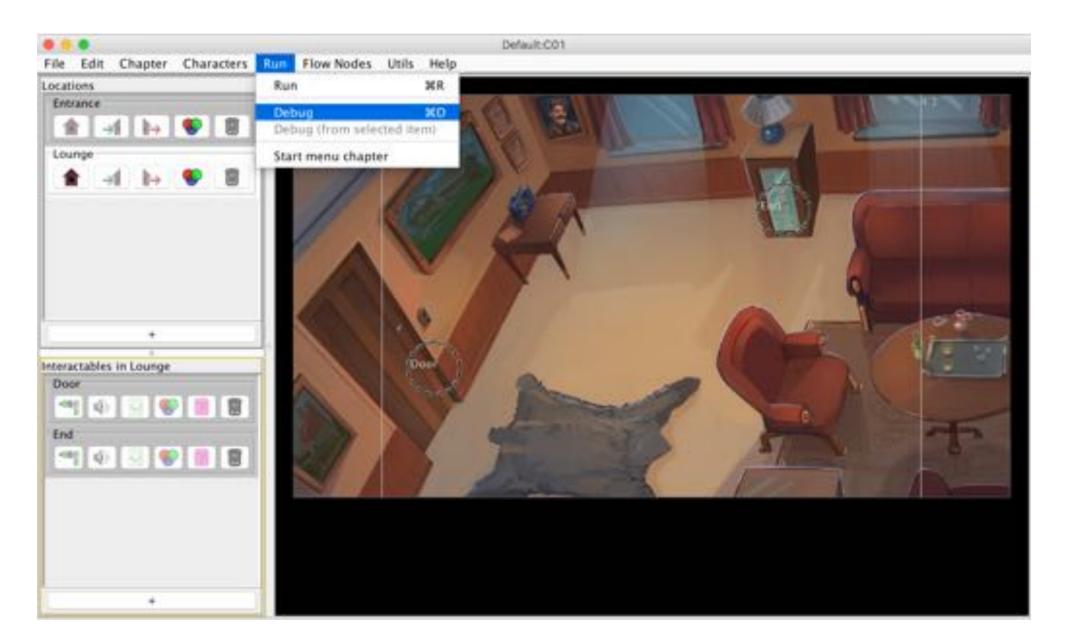




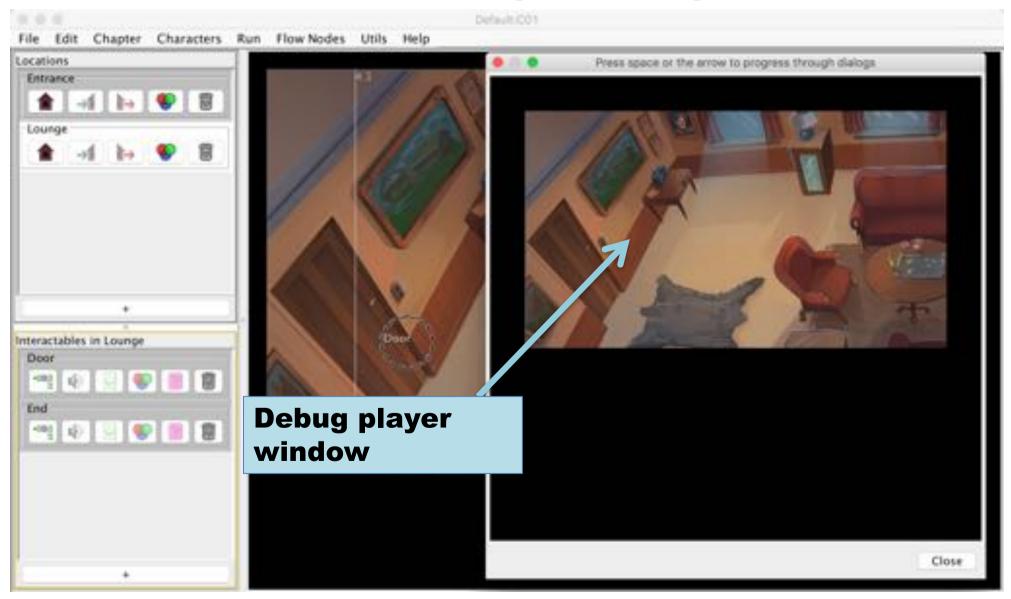
Debug Game Logic

Using the built in player to test the logic

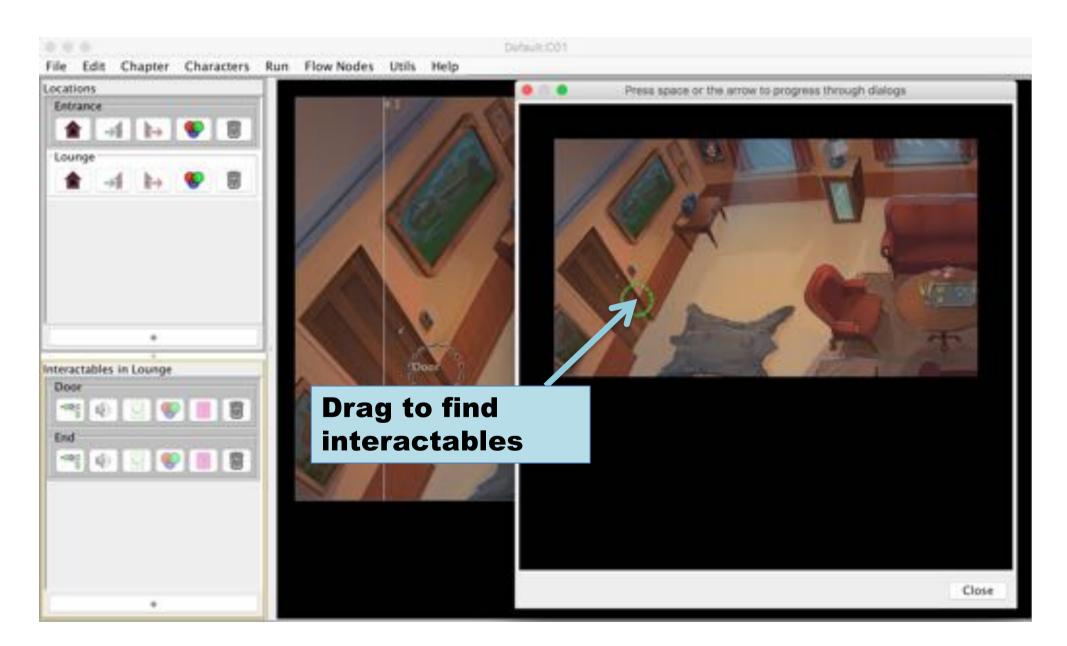
Select Run→Debug



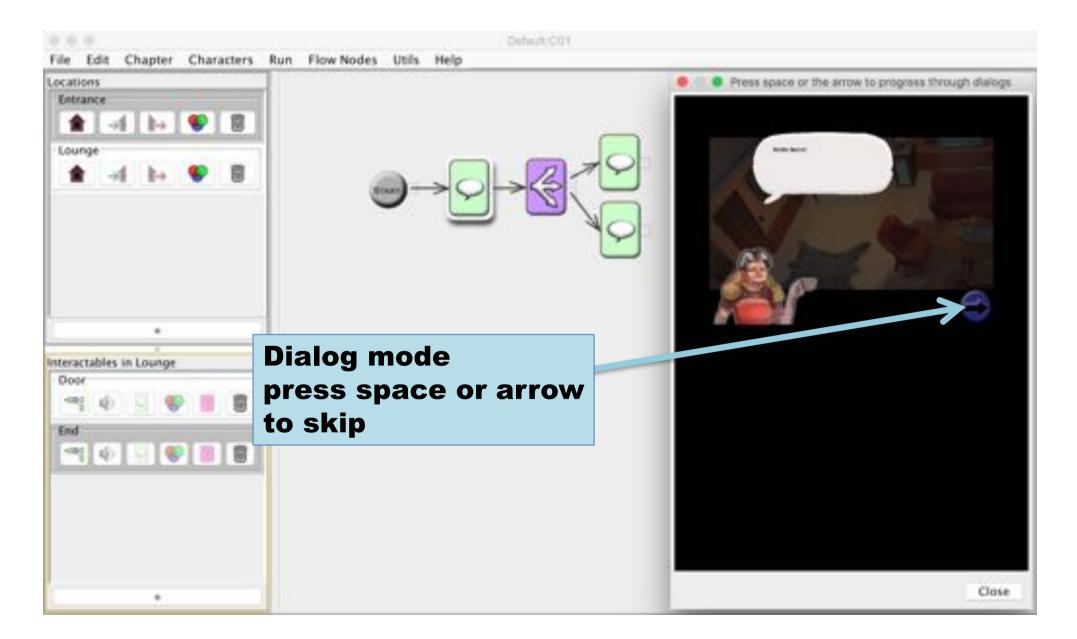
Debugger let you play the game and follow the game logic



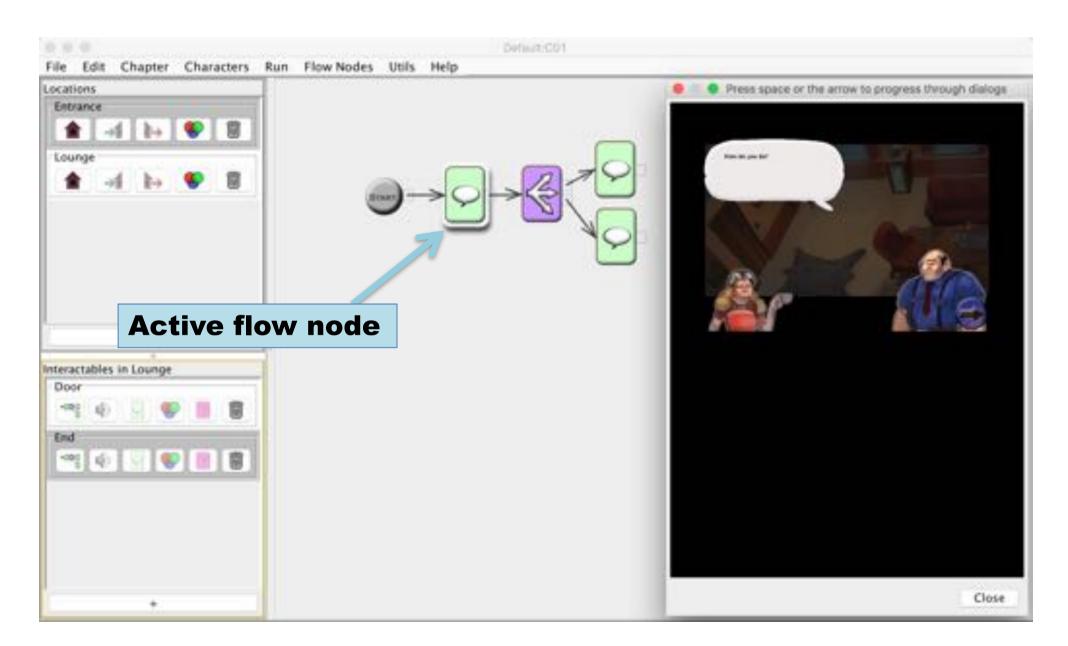
Exploration mode

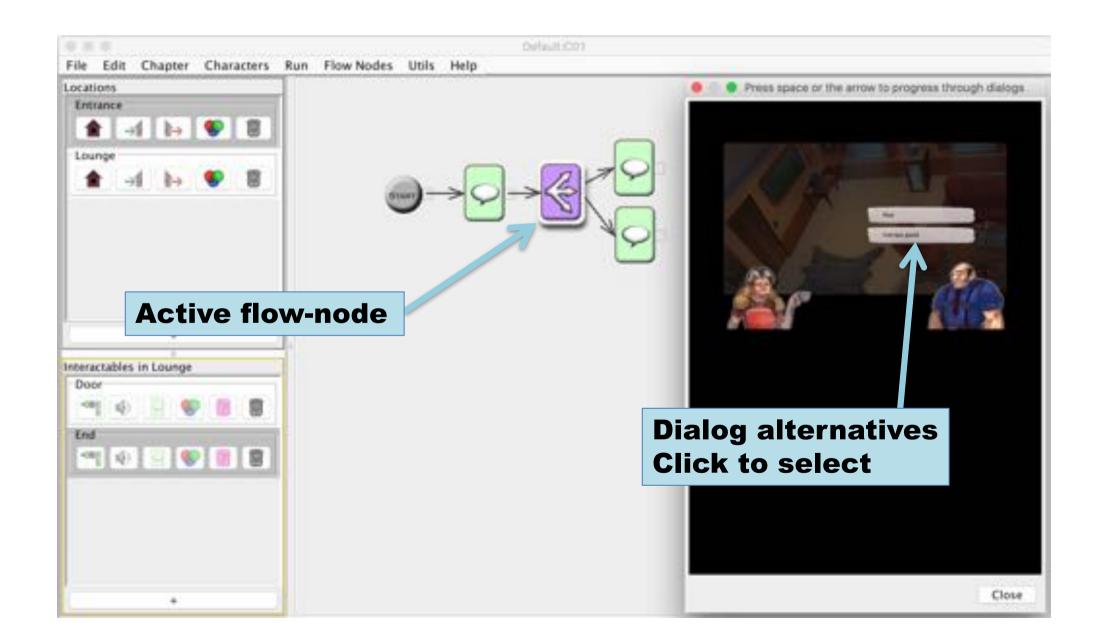


Dialog mode

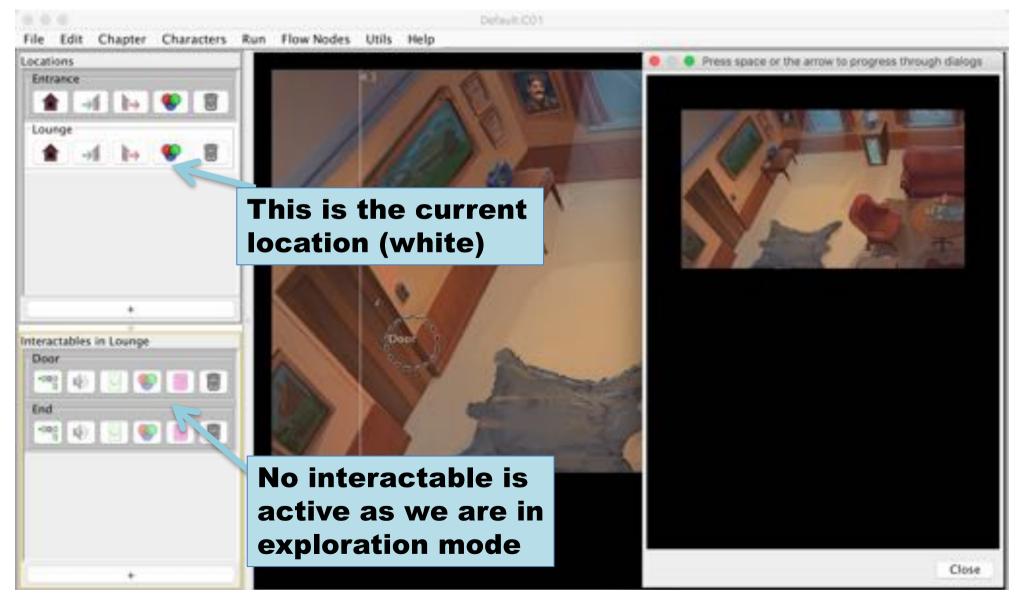


The active flow node is highlighted





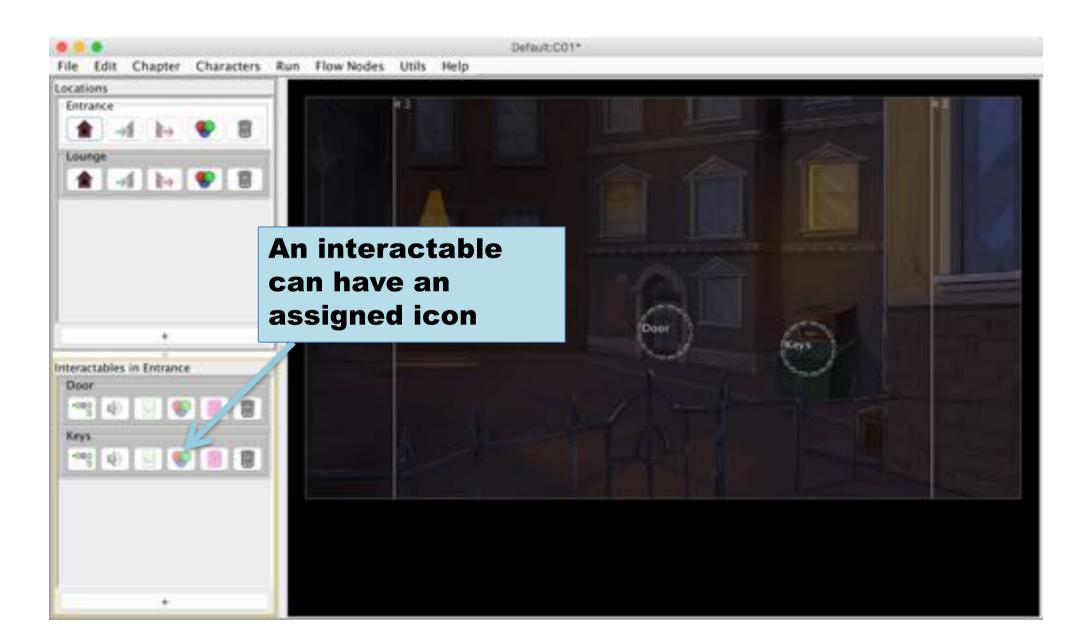
Interactables and locations are also highlighted



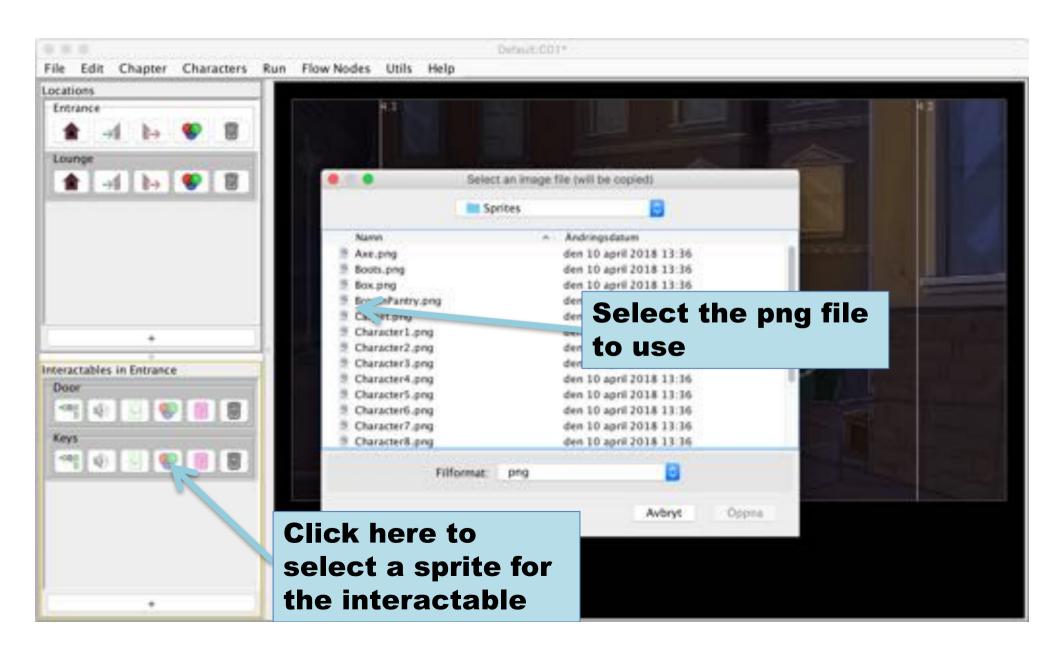
Interactables' Icon and Audio

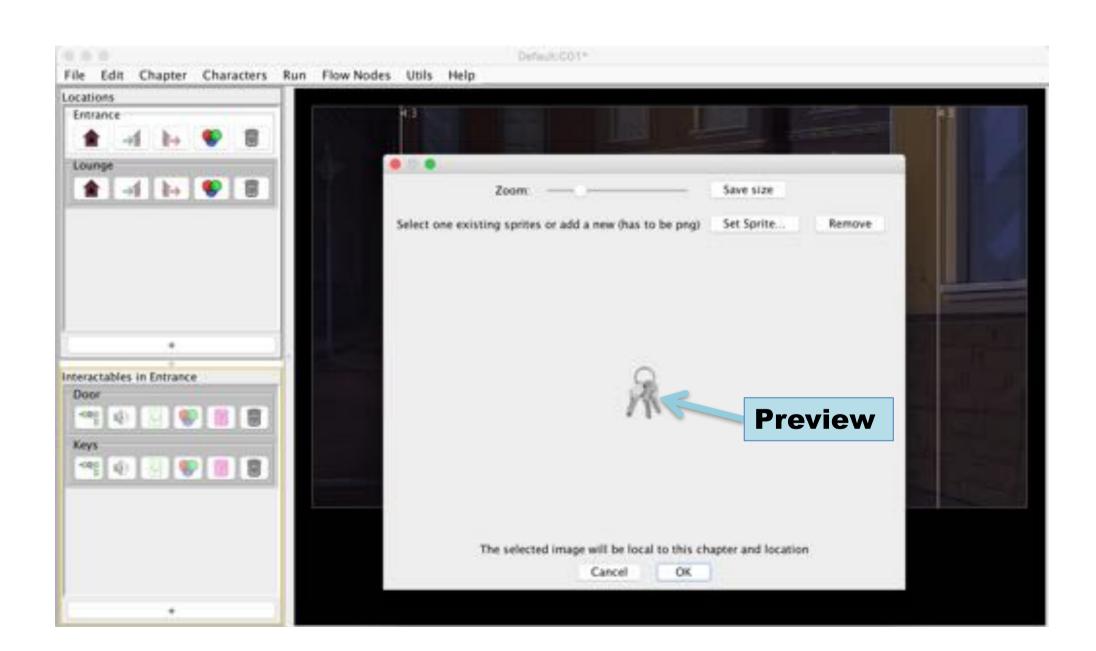
If each interactable is given a unique auditory icon the game can be played by visually impaired

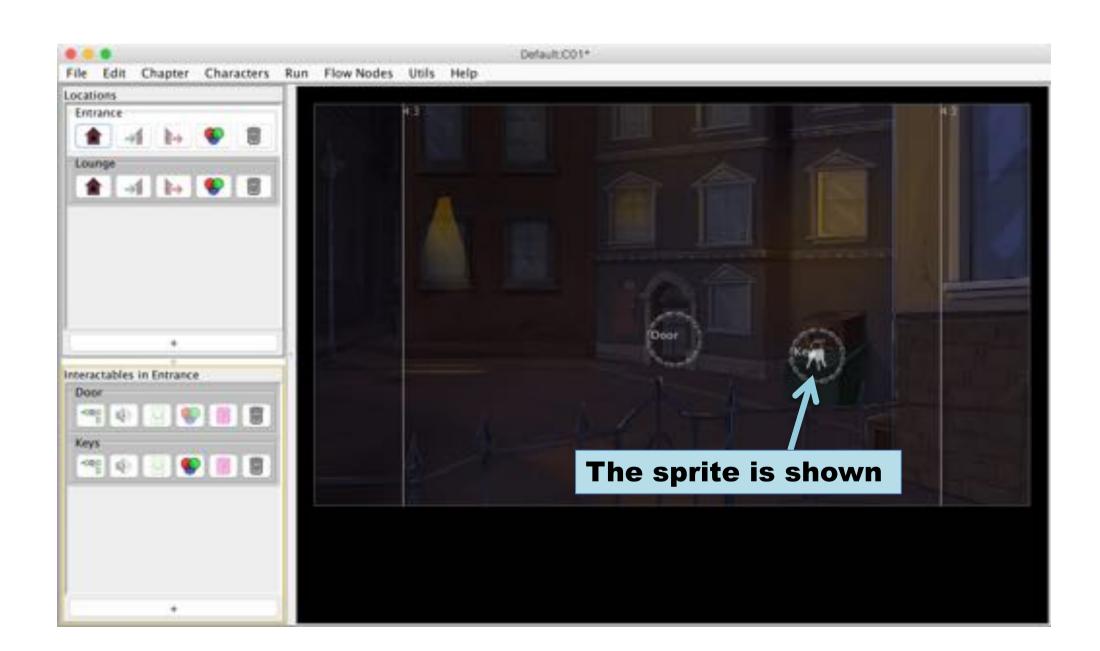
Select a icon for an interactable



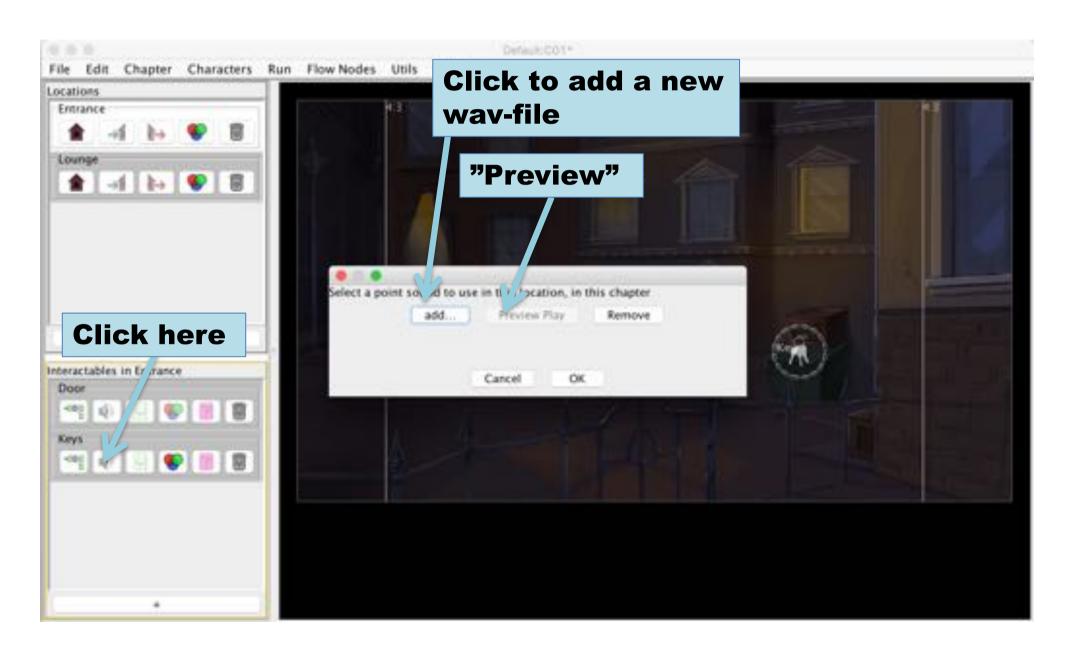
Select sprite



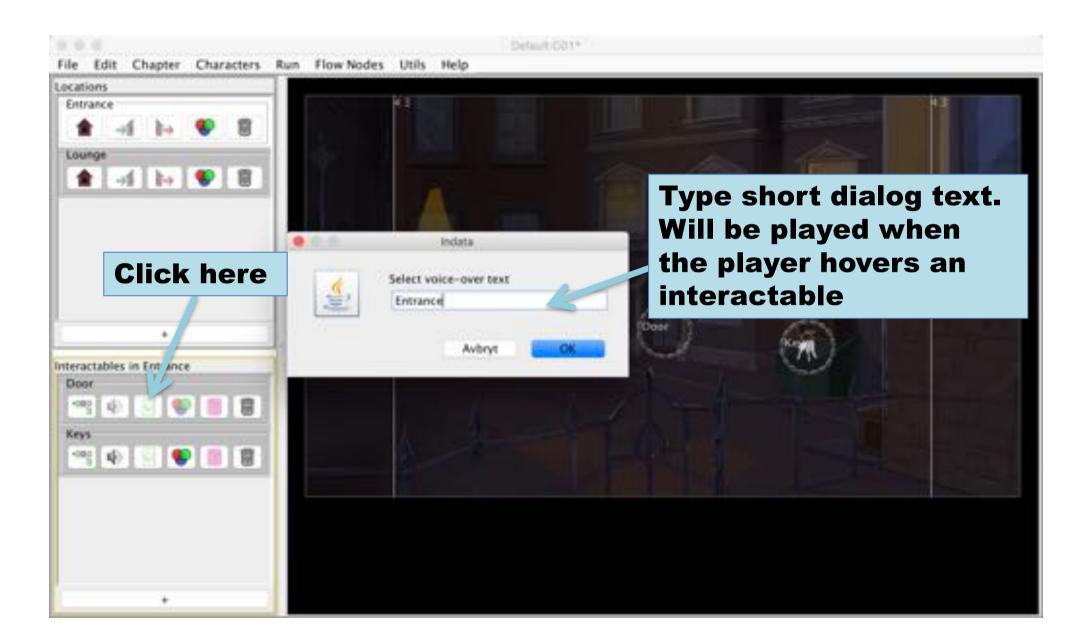




Select auditory icon for an interactable



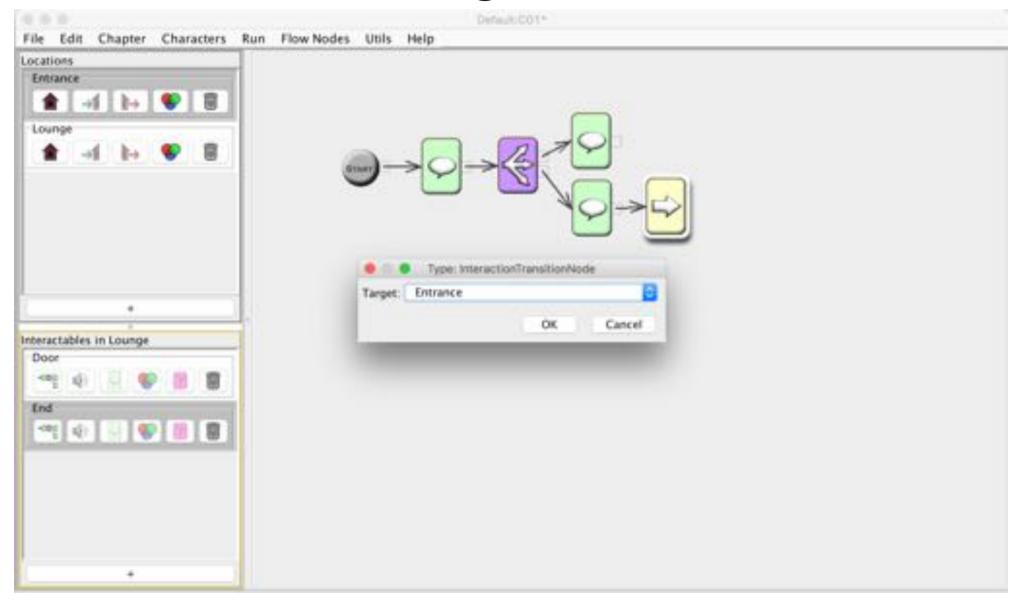
Voice-over for interactables



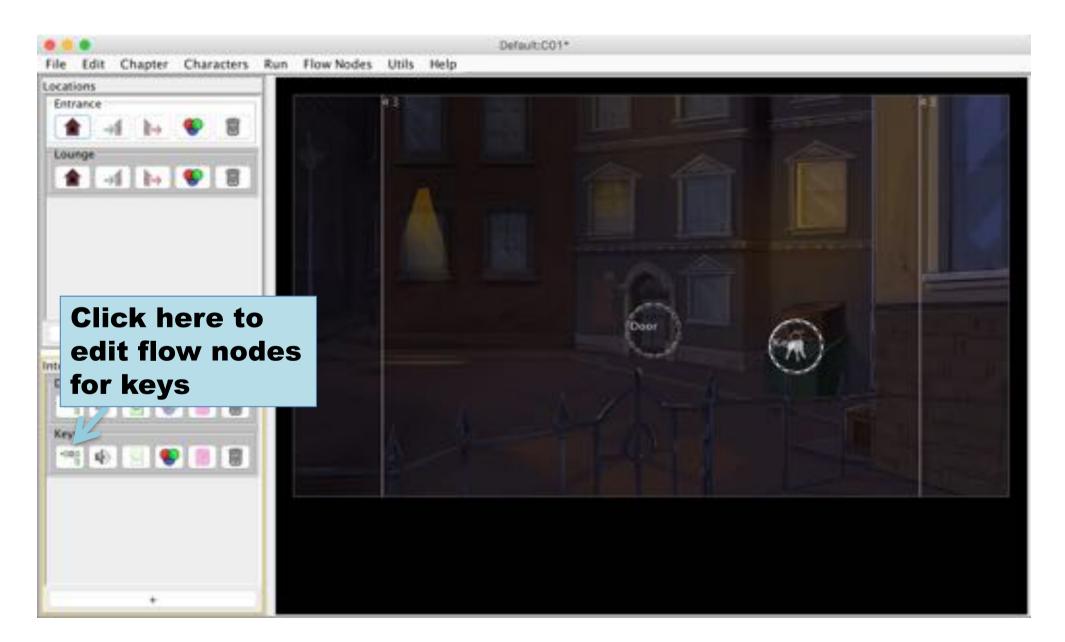
More Flow Nodes



Transition Node to change location

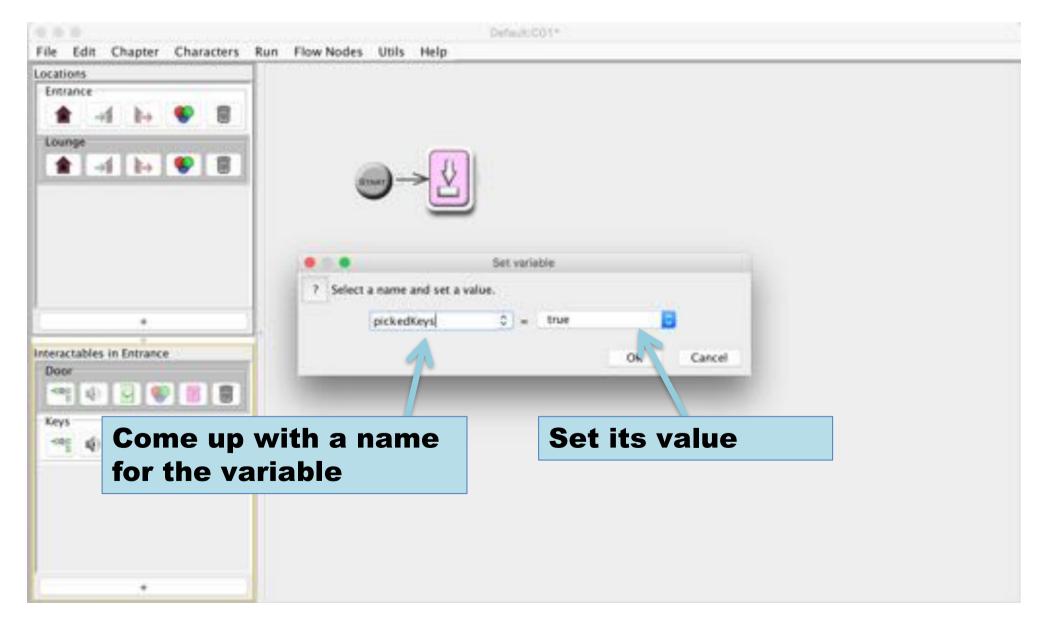


Condition example – use key

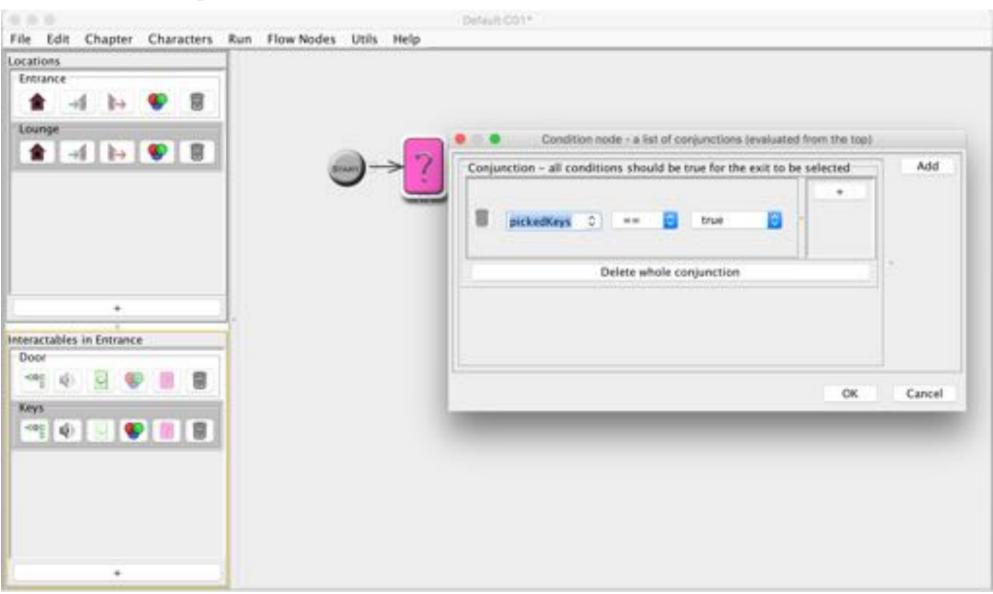




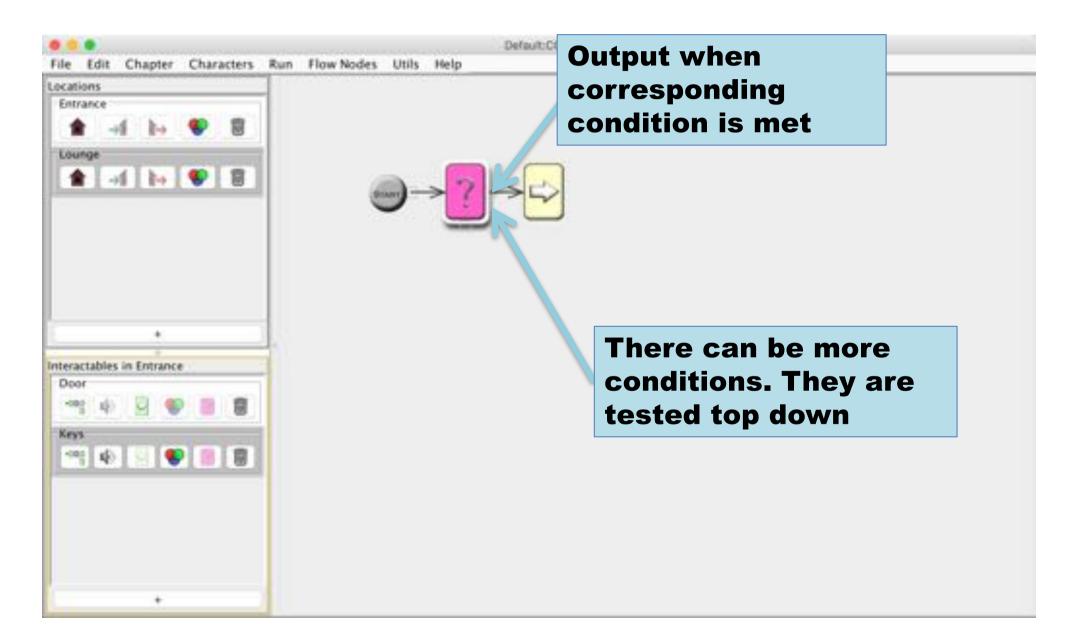
Set Variable Node



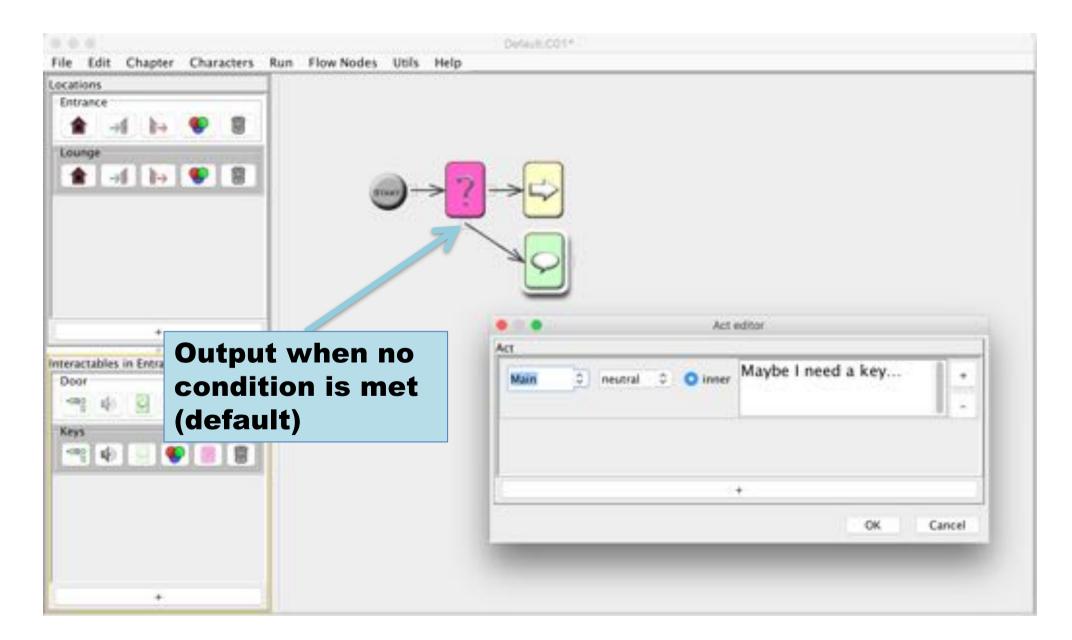
Condition Node to guide the flow with conditions



Condition true \rightarrow change location

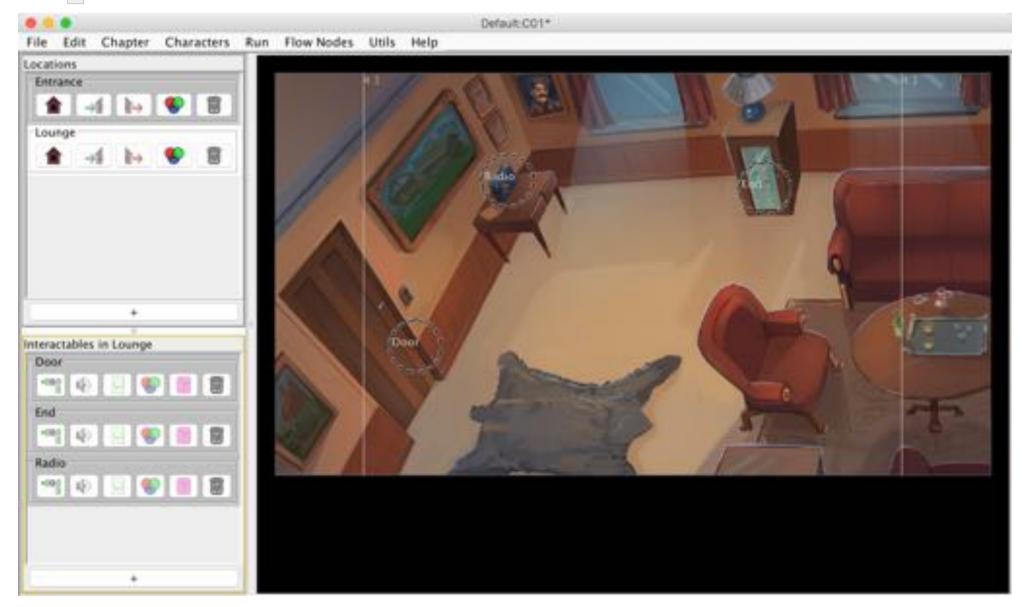


Condition false – give an hint

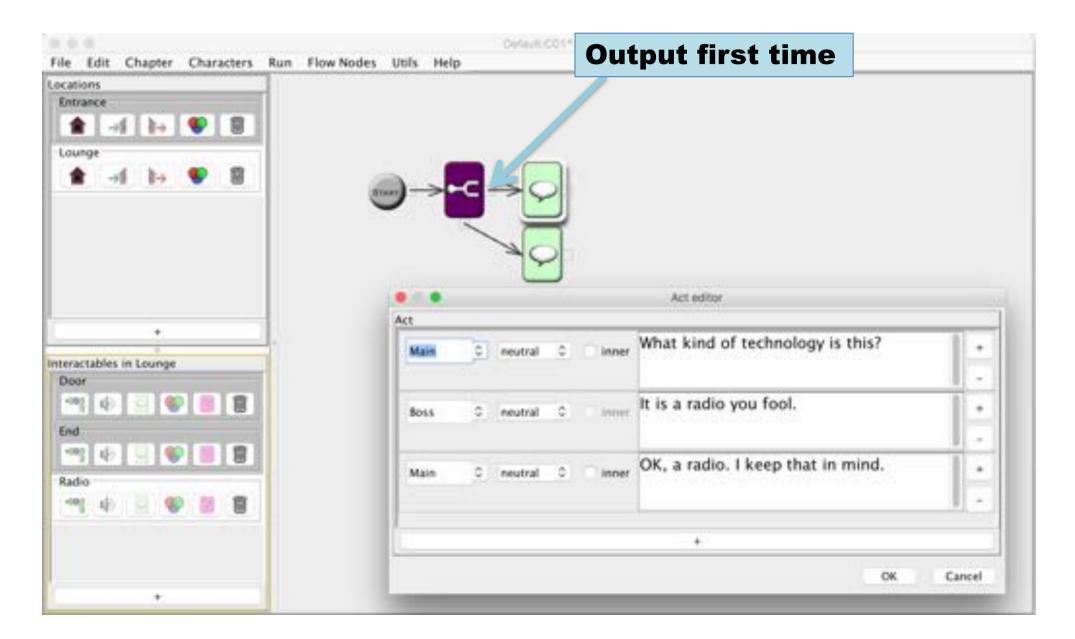




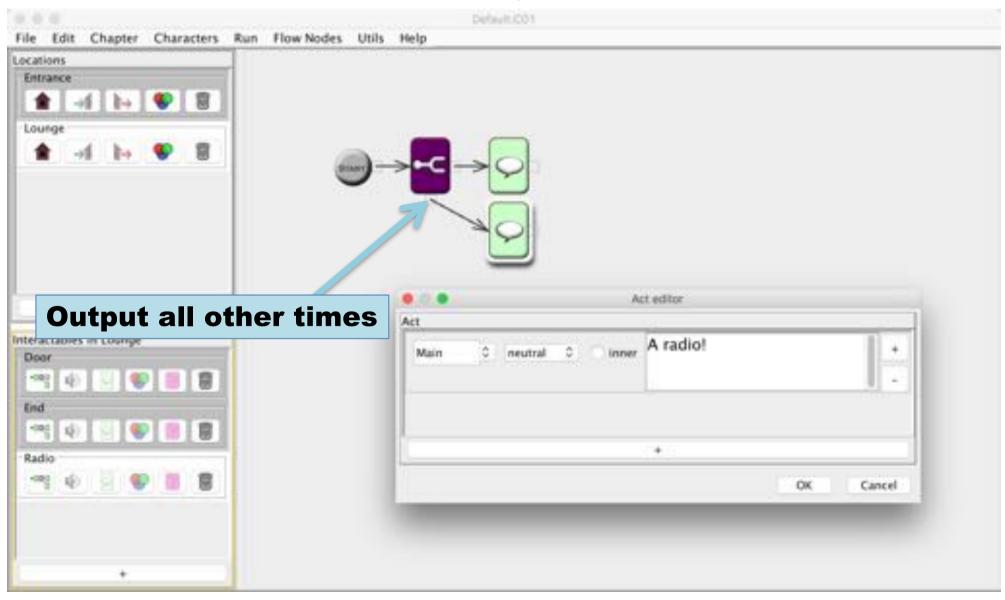
Fork node example – the radio



First interaction \rightarrow present the item

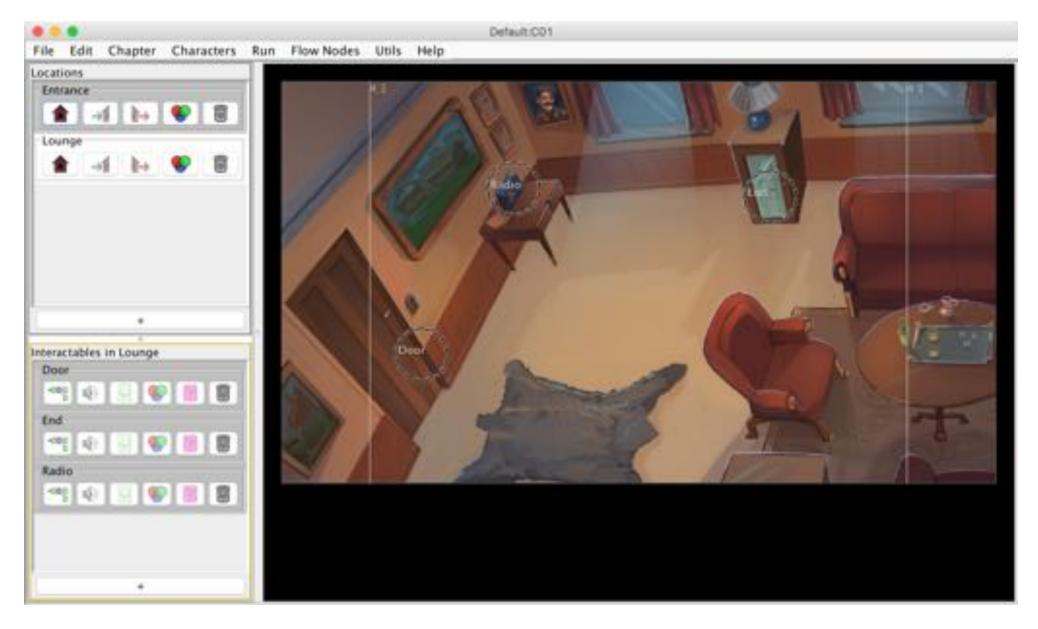


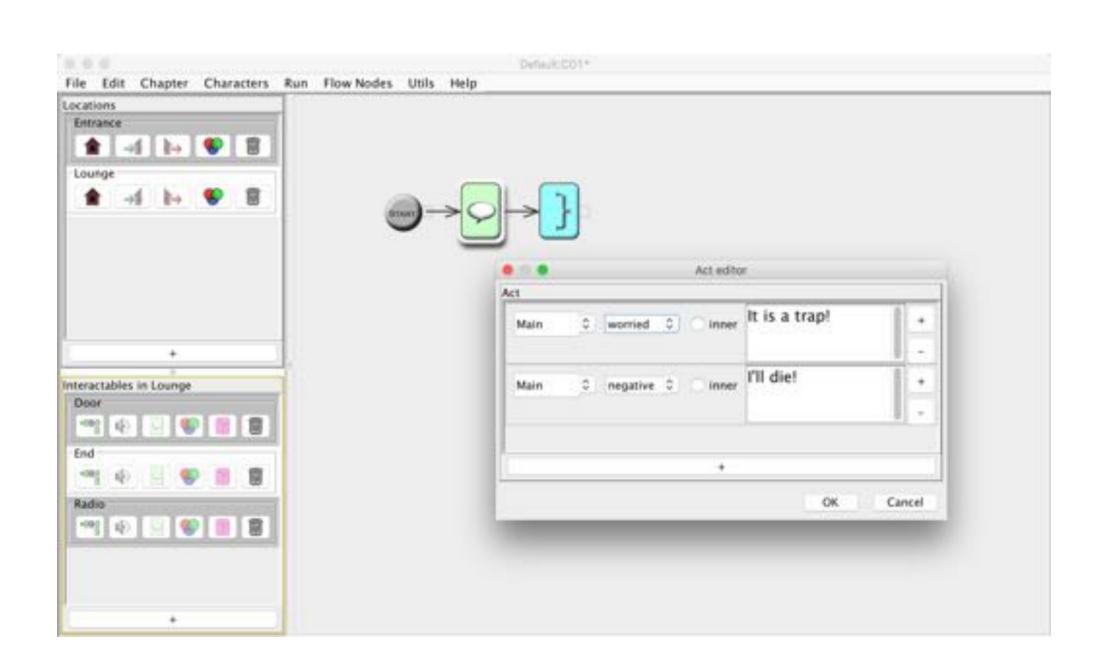
All other times → give a short description



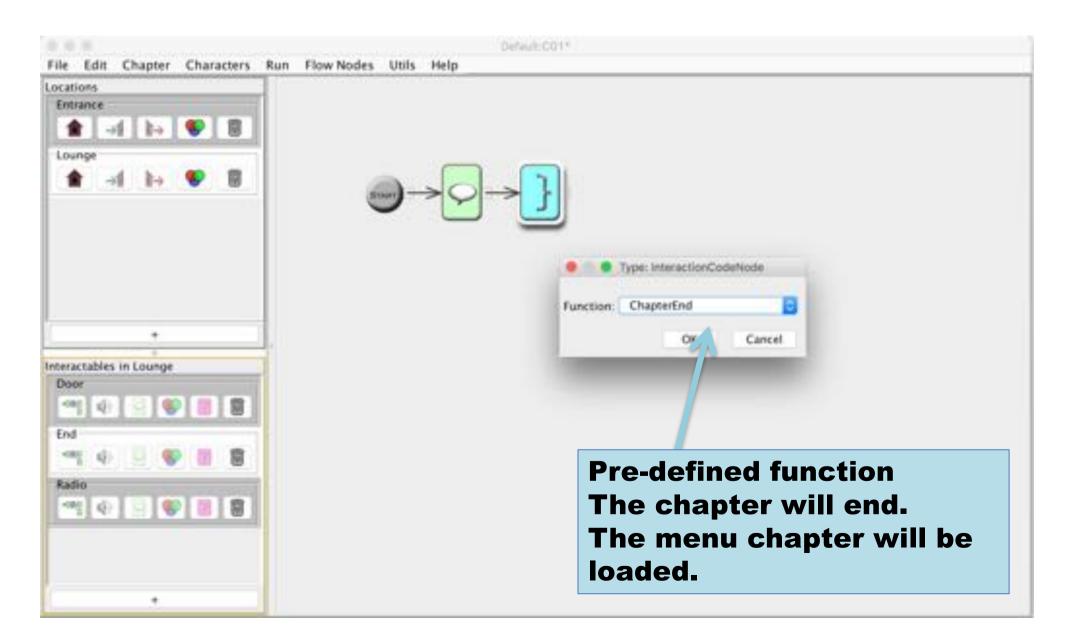


Code node example – death trap



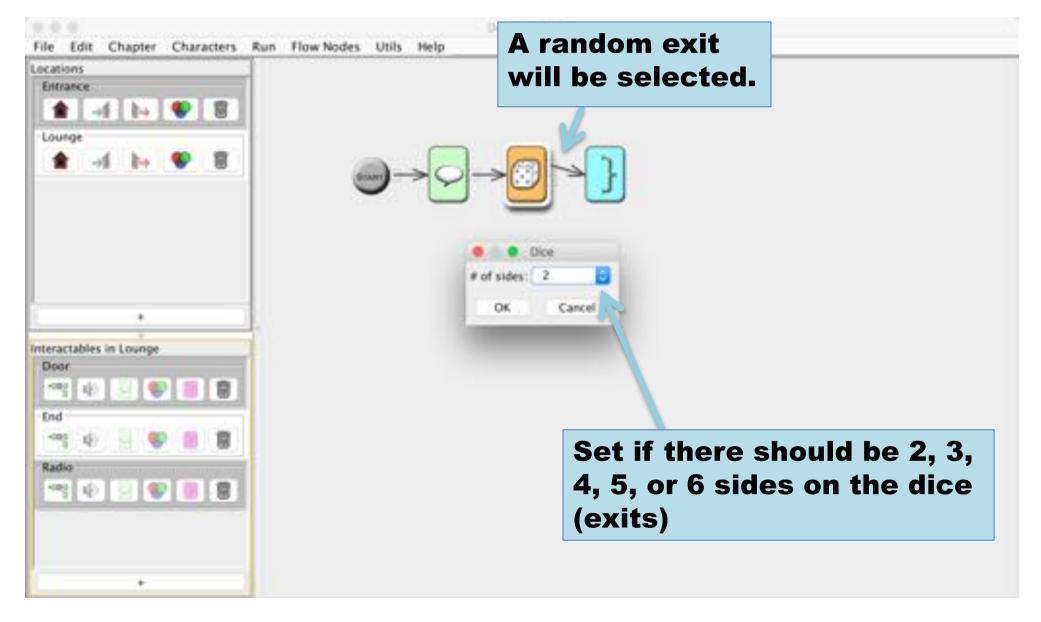


ChapterEnd ends the chapter

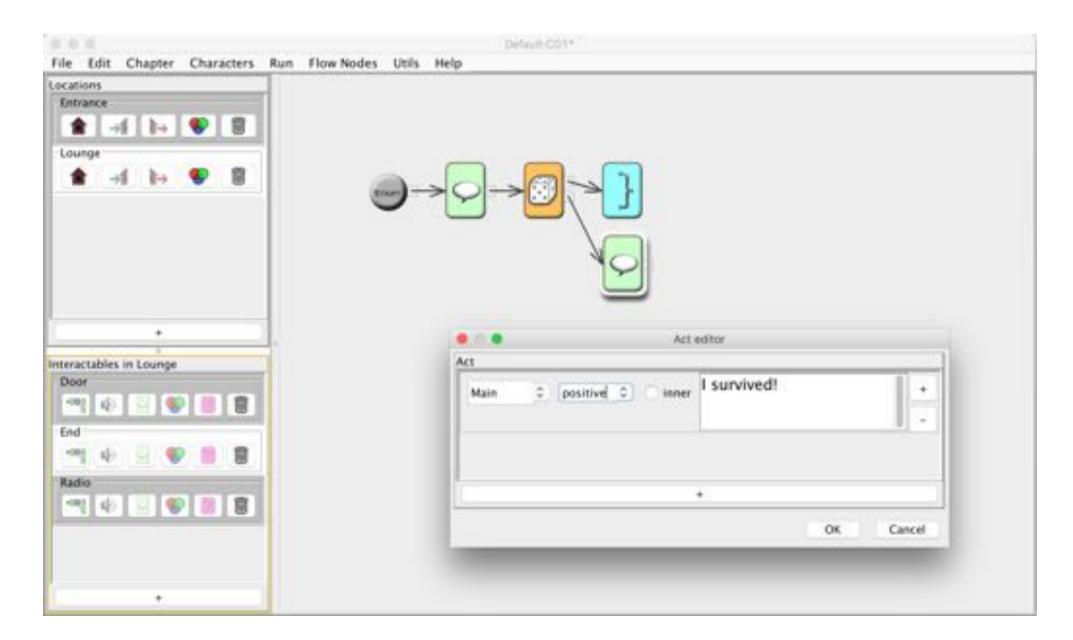




Dice node

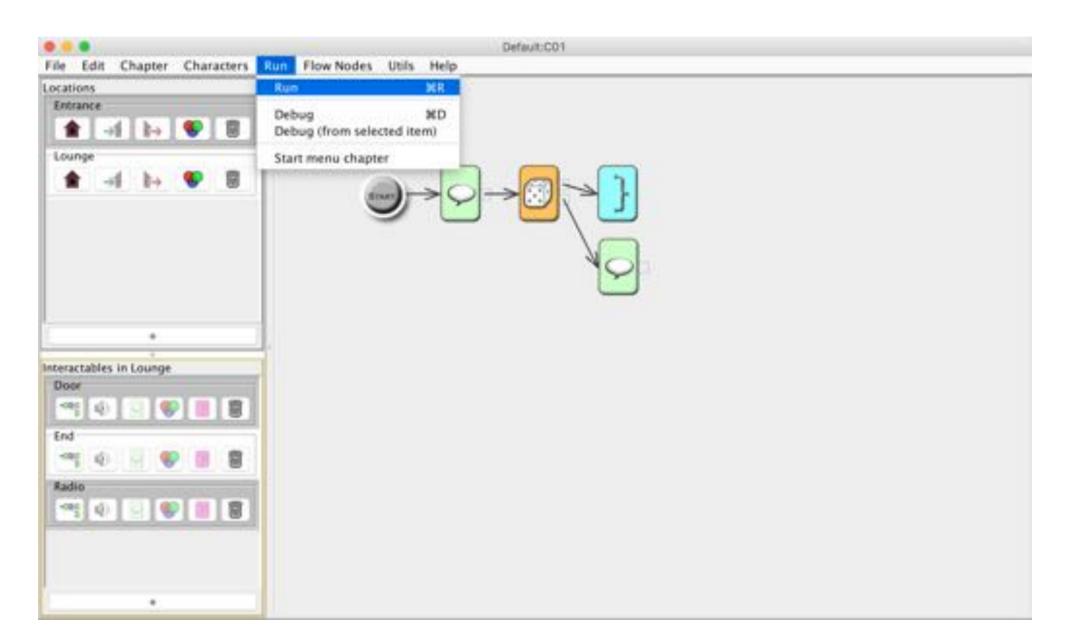


The death trap is now less lethal

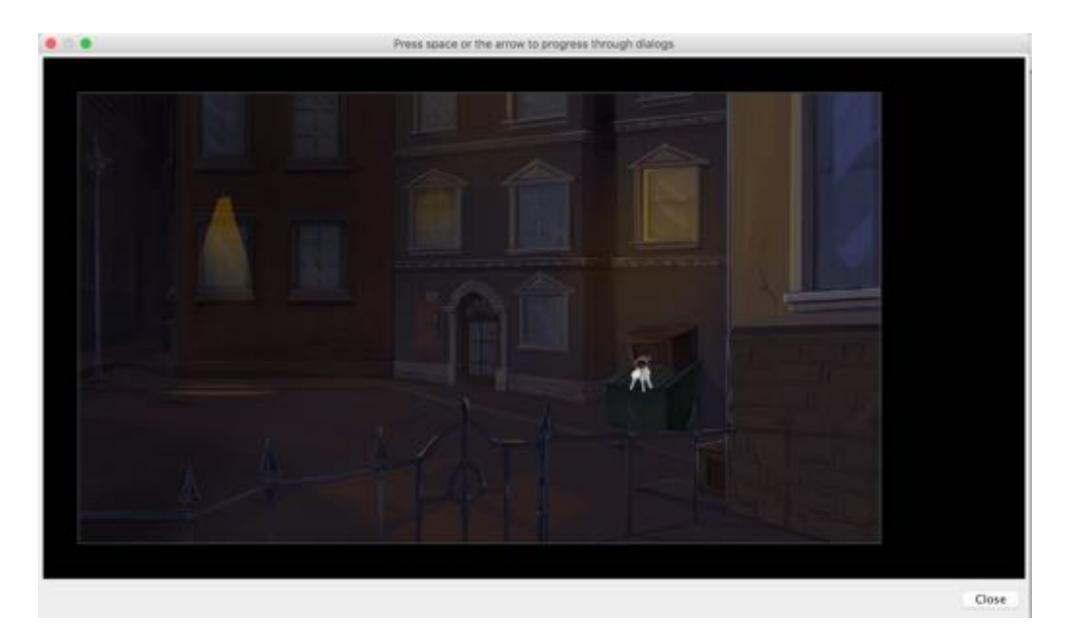


Run the Game

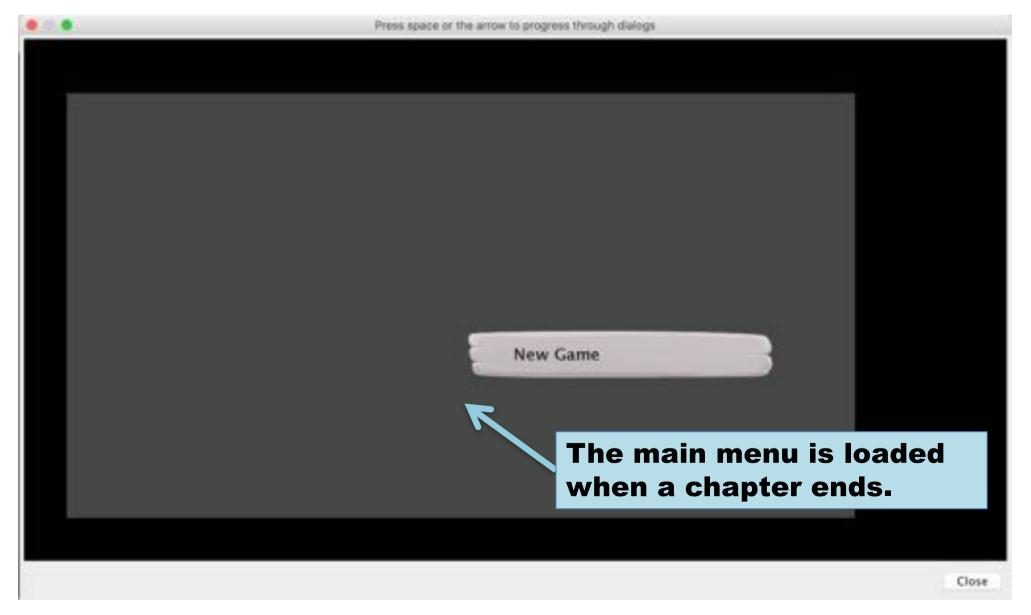
select Run → Run (or ctrl-R)



Note: no debug information



When the *ChapterEnd* codeNode is reached

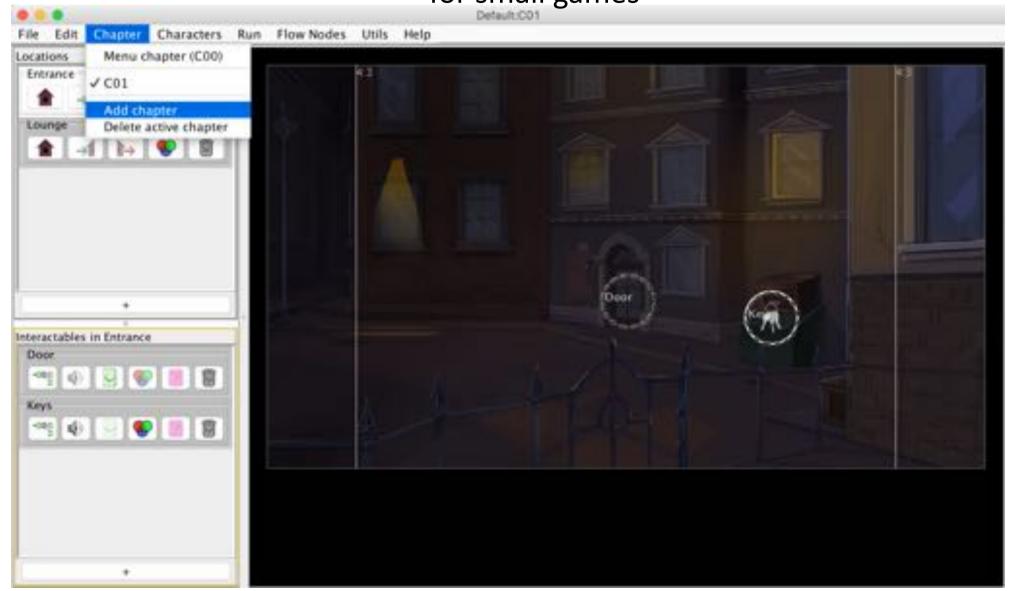


Details

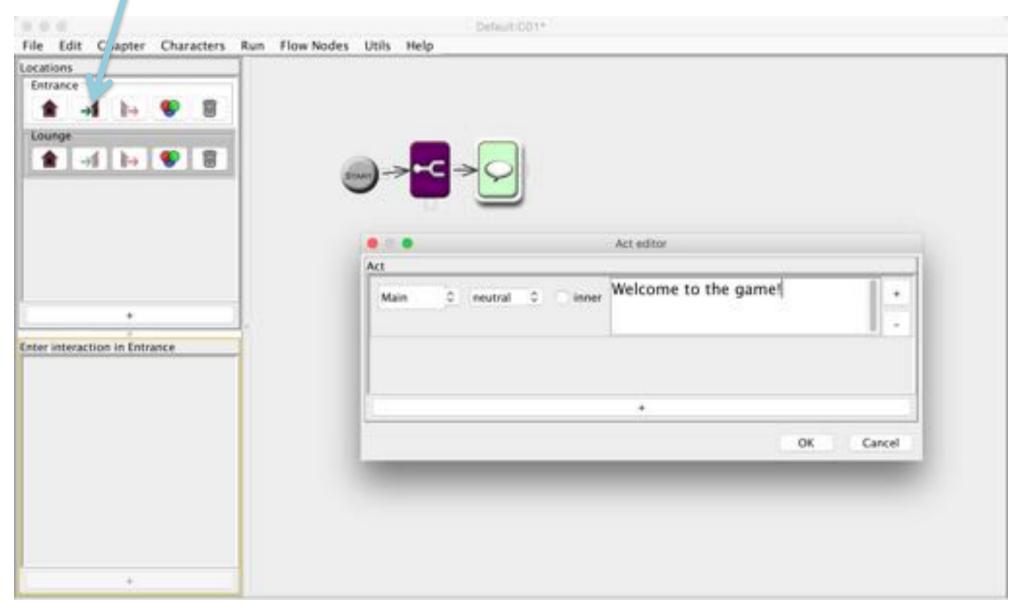
Adding chapters
Enter and exit flow
Conditional dialog alternatives
Conditional interactables

A game can be split in chapters

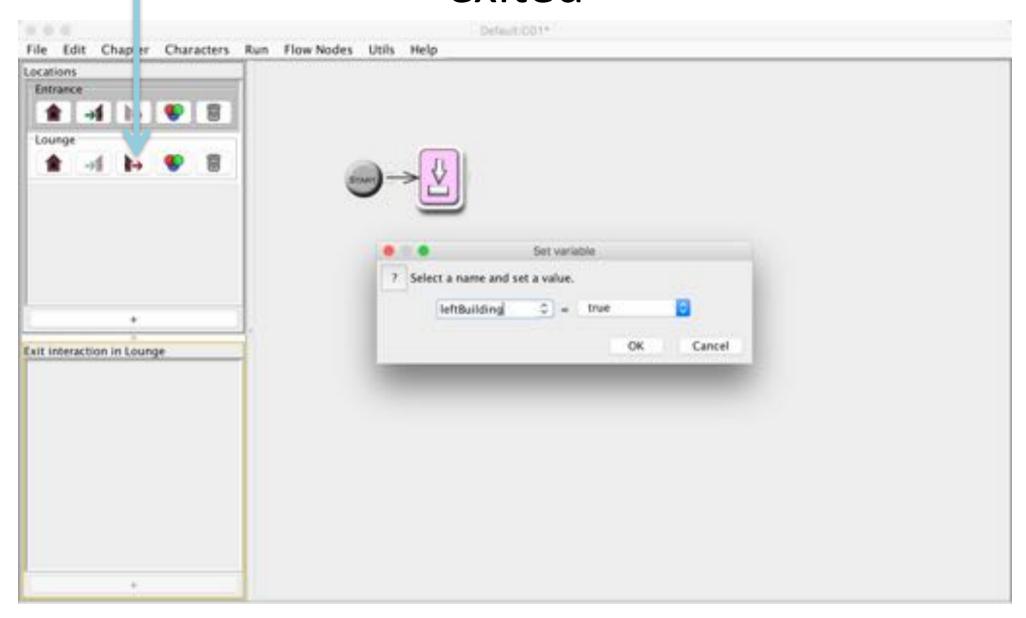
Note: mostly there is little point having more than one chapter for small games



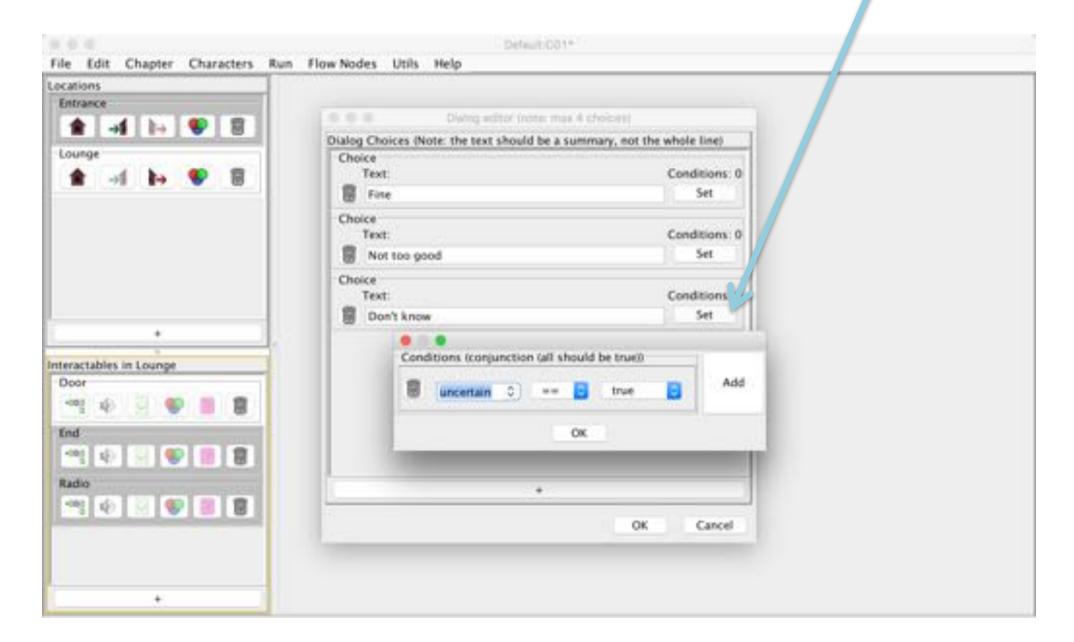
Enter flow is executed when a location is entered



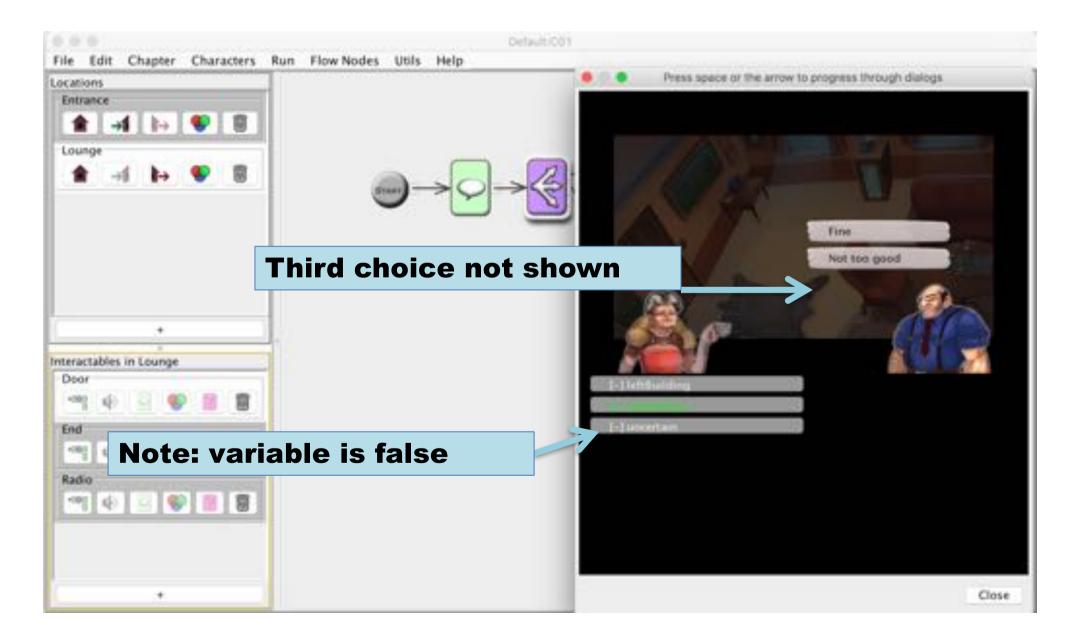
Exit flow is executed when a location is exited



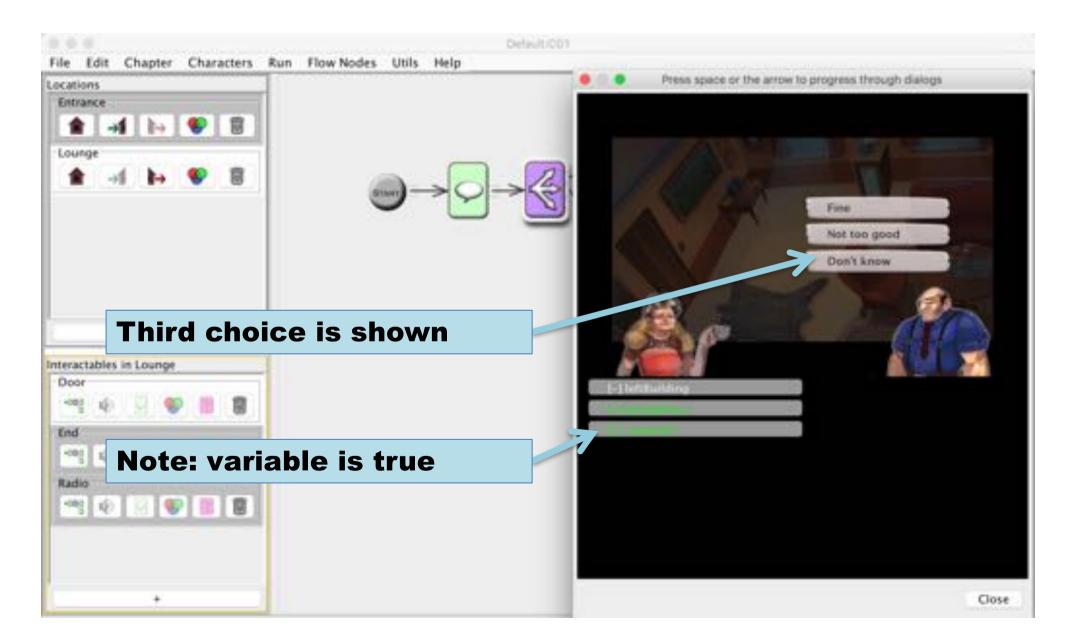
Dialog alternatives can be conditional



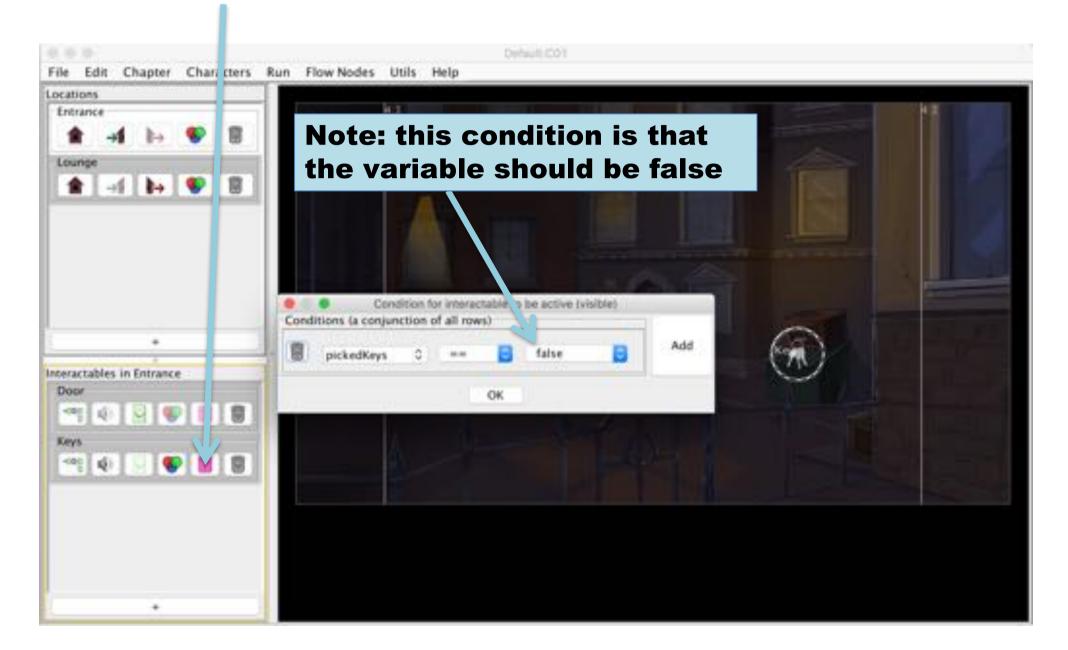
Debug conditional dialog



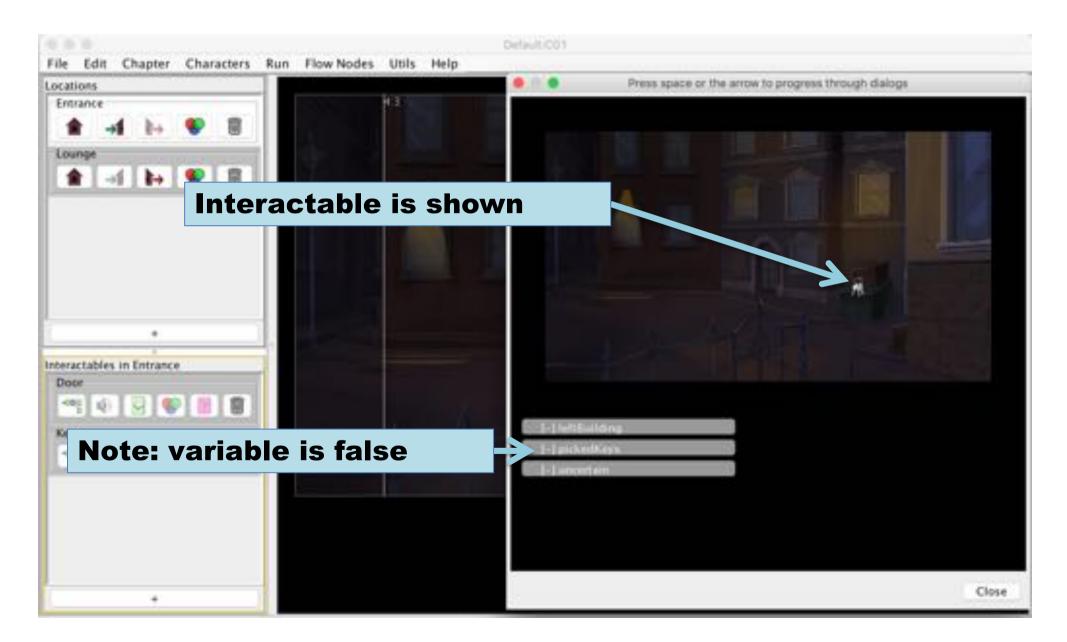
Debug conditional dialog



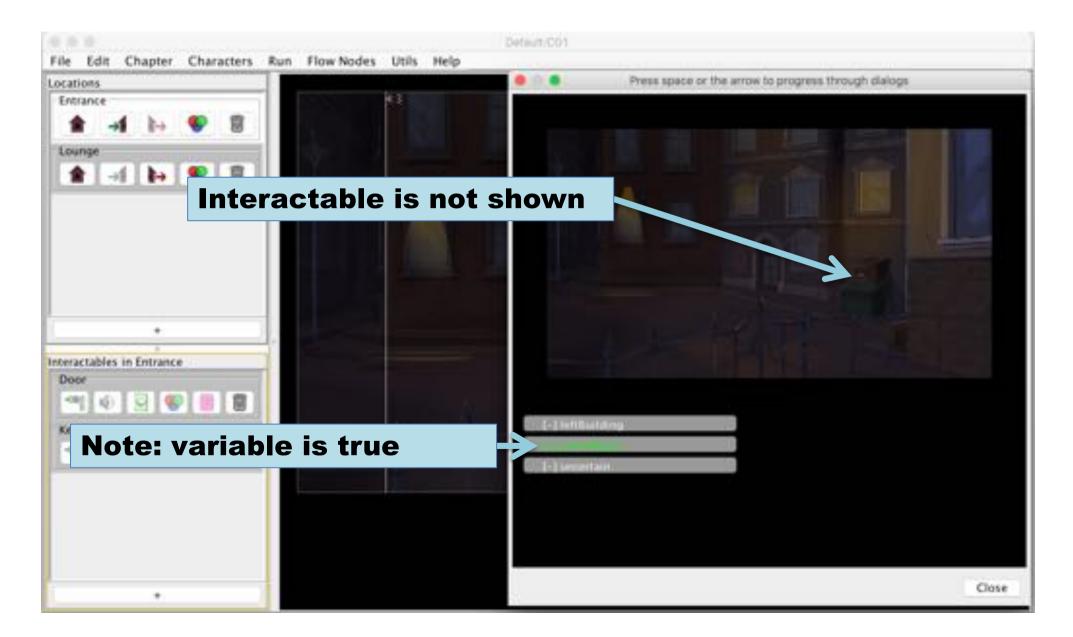
Interactables can be conditional



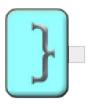
Debug conditional interactable



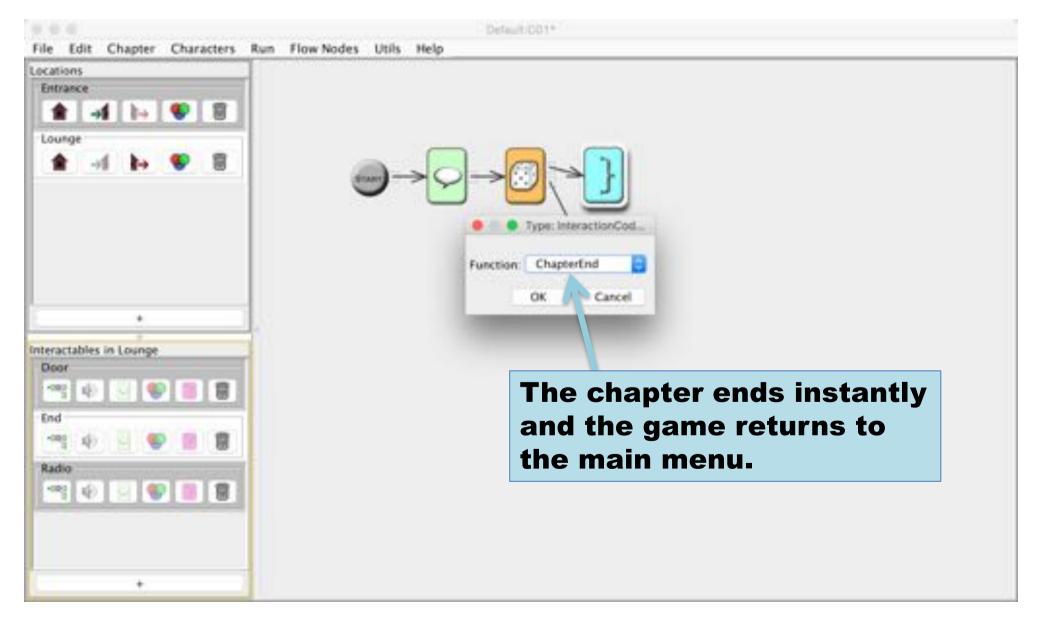
Debug conditional interactable



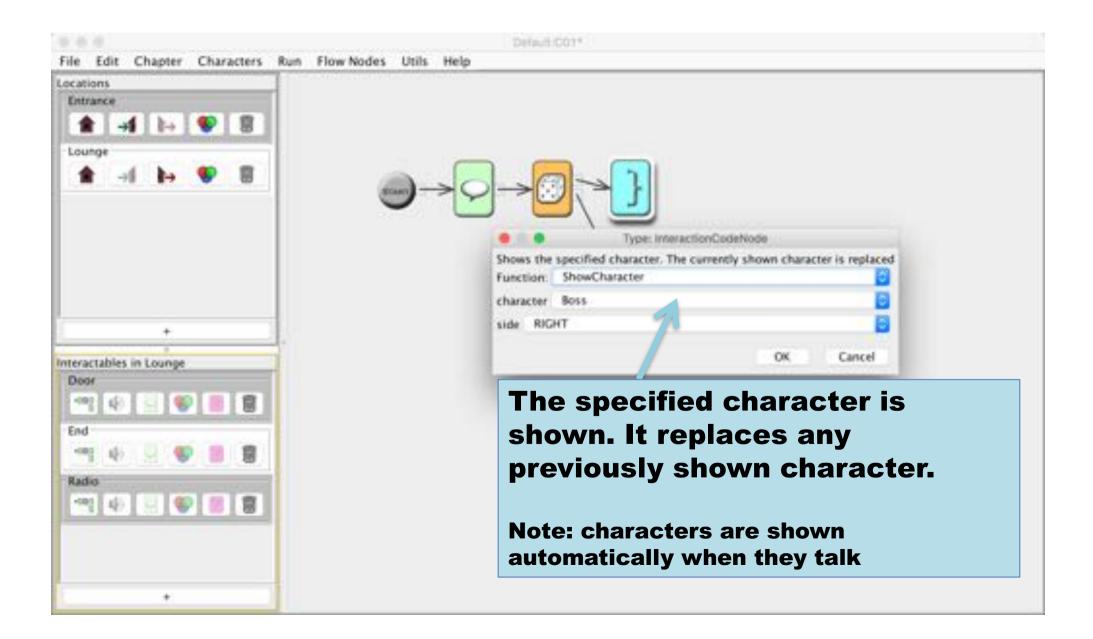
Code Nodes



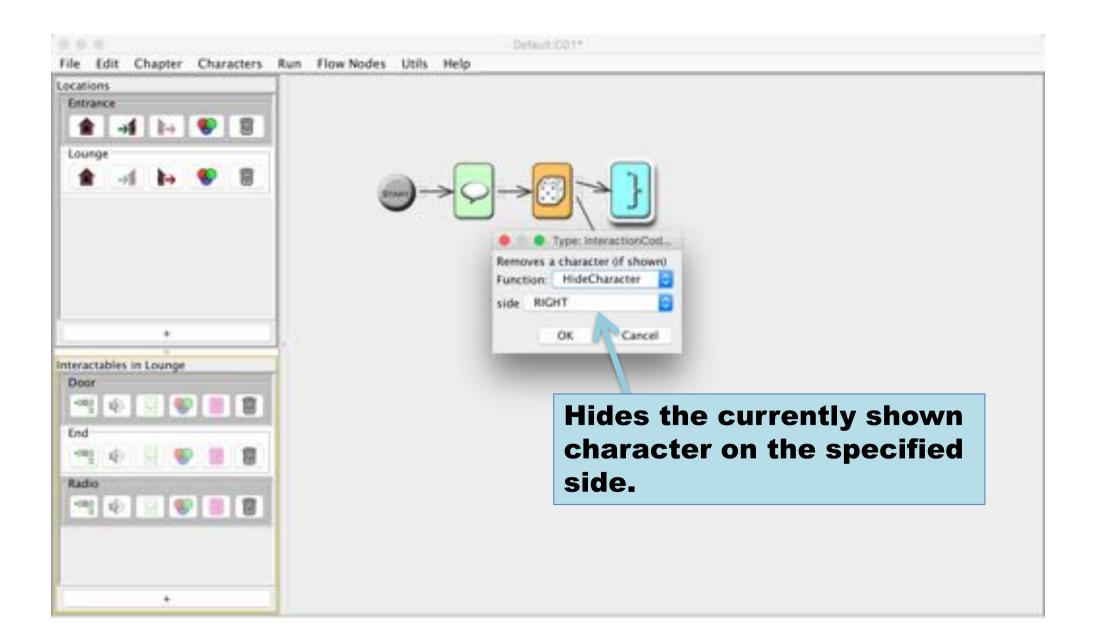
Code node - ChapterEnd



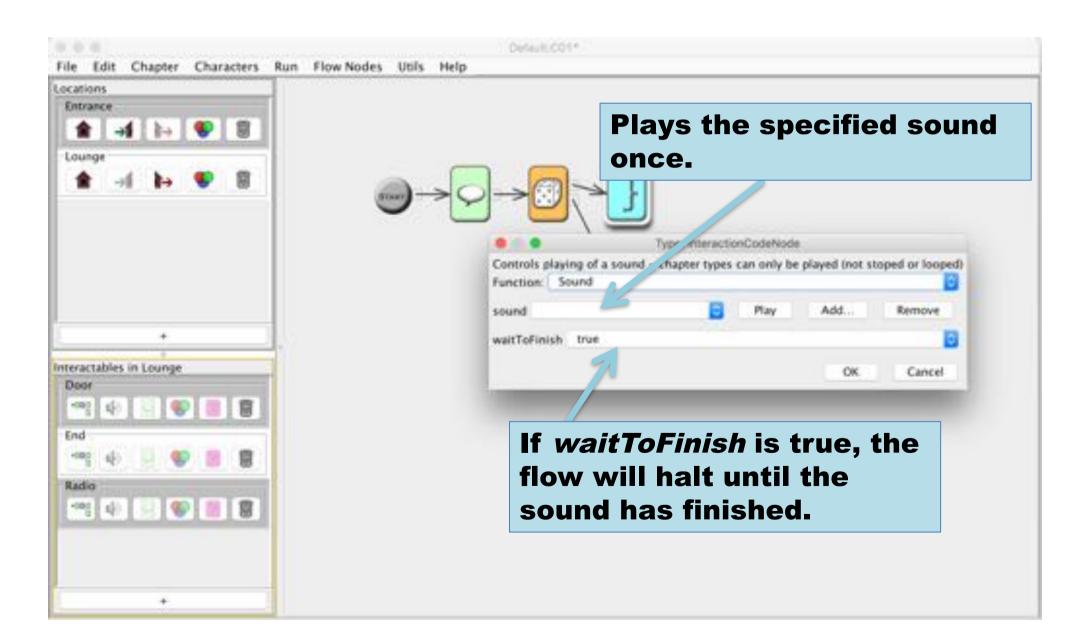
Code node - ShowCharacter



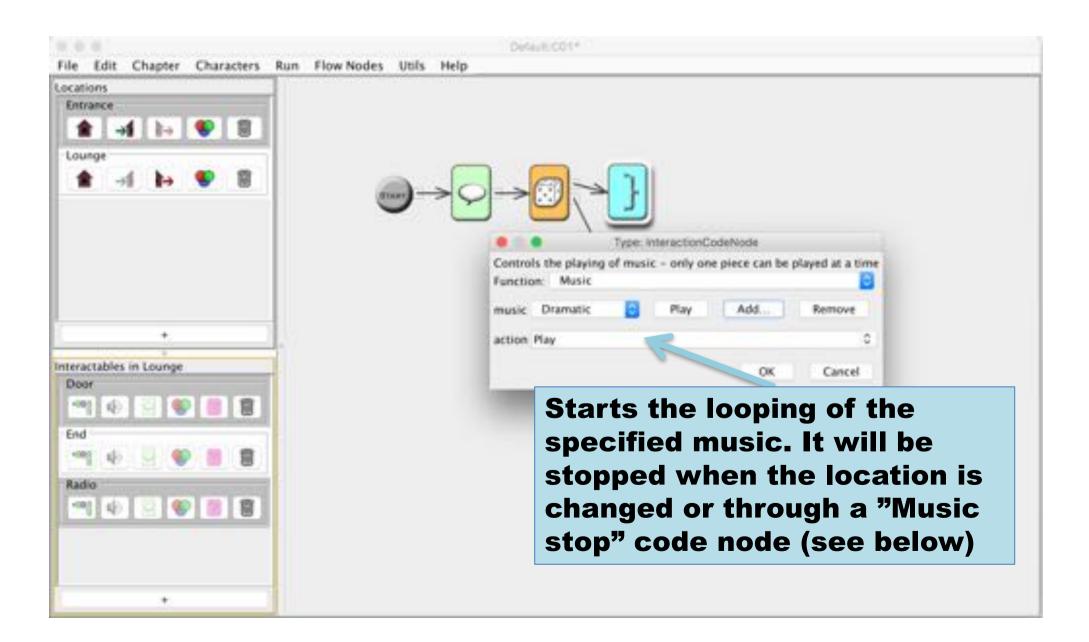
Code node - HideCharacter



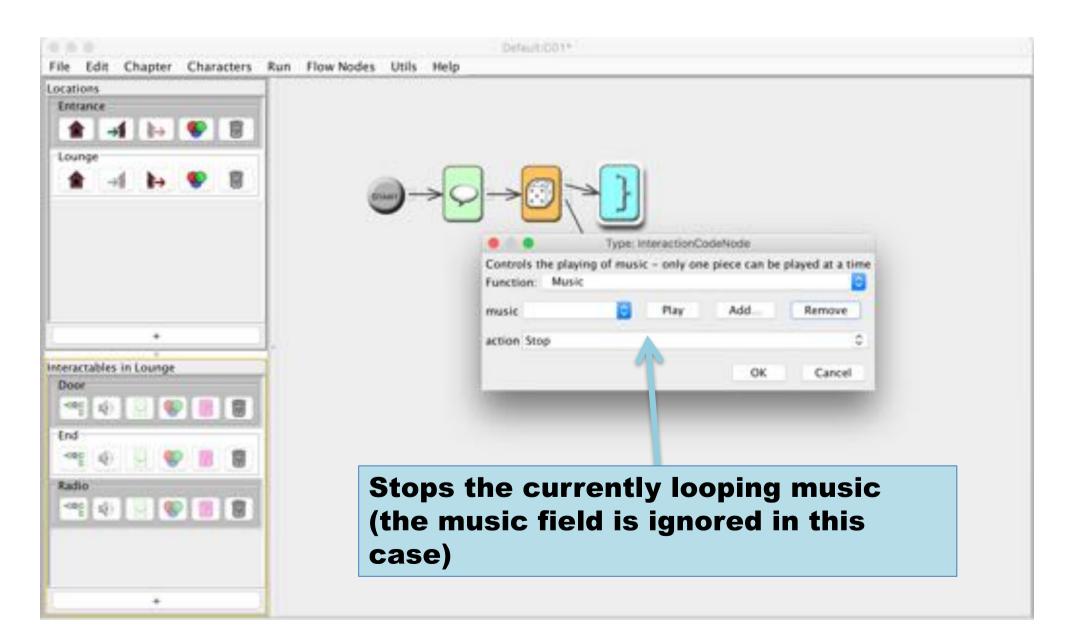
Code node - Sound



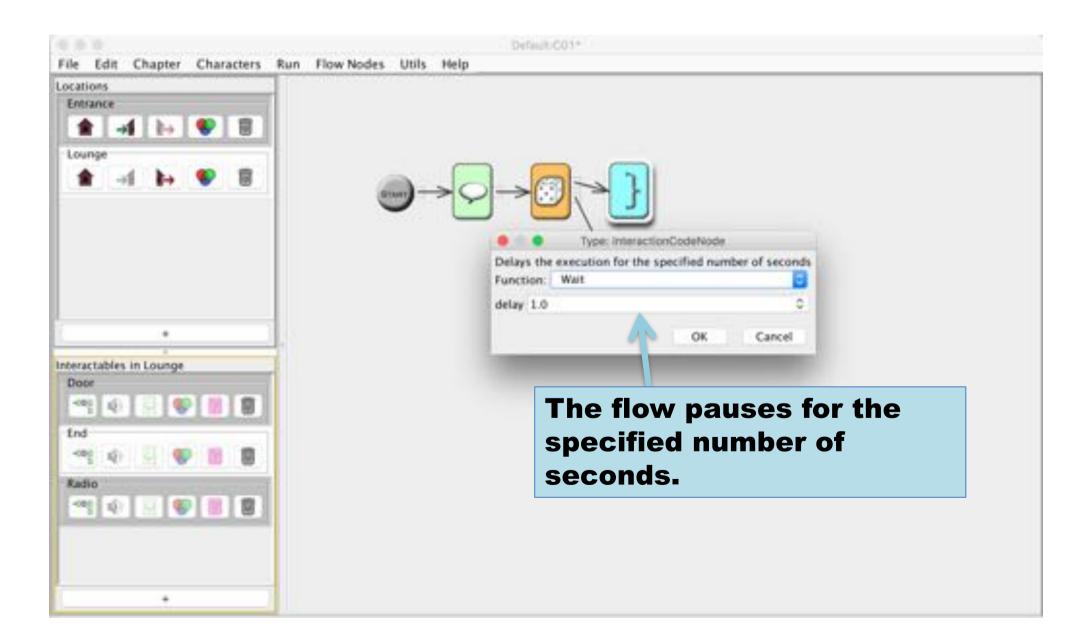
Code node - Music



Code node - StopMusic

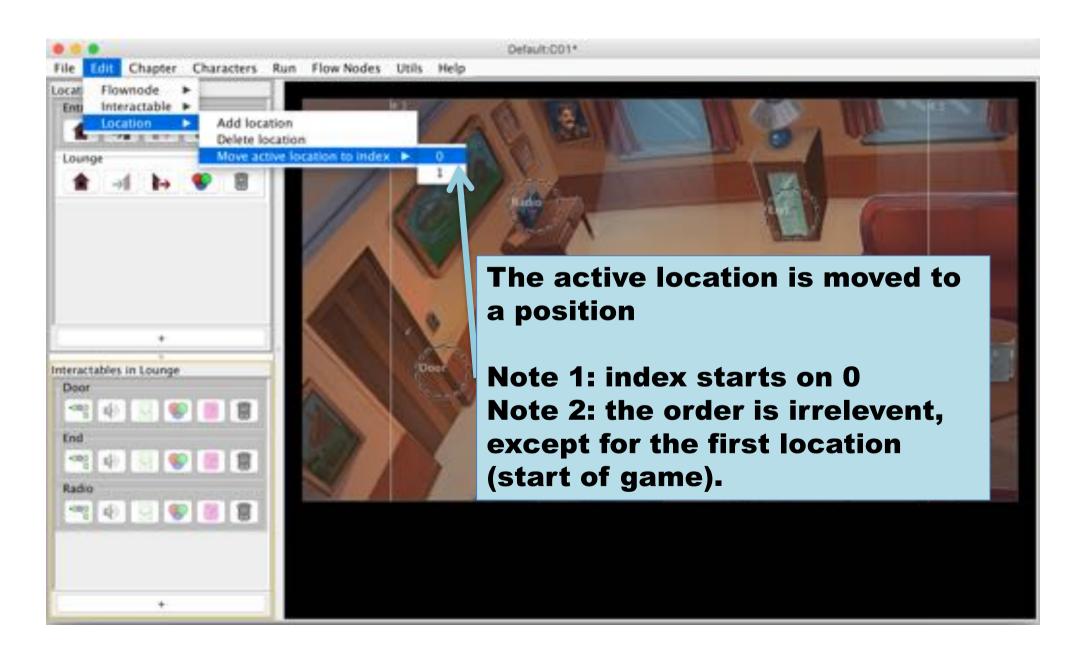


Code node - Wait

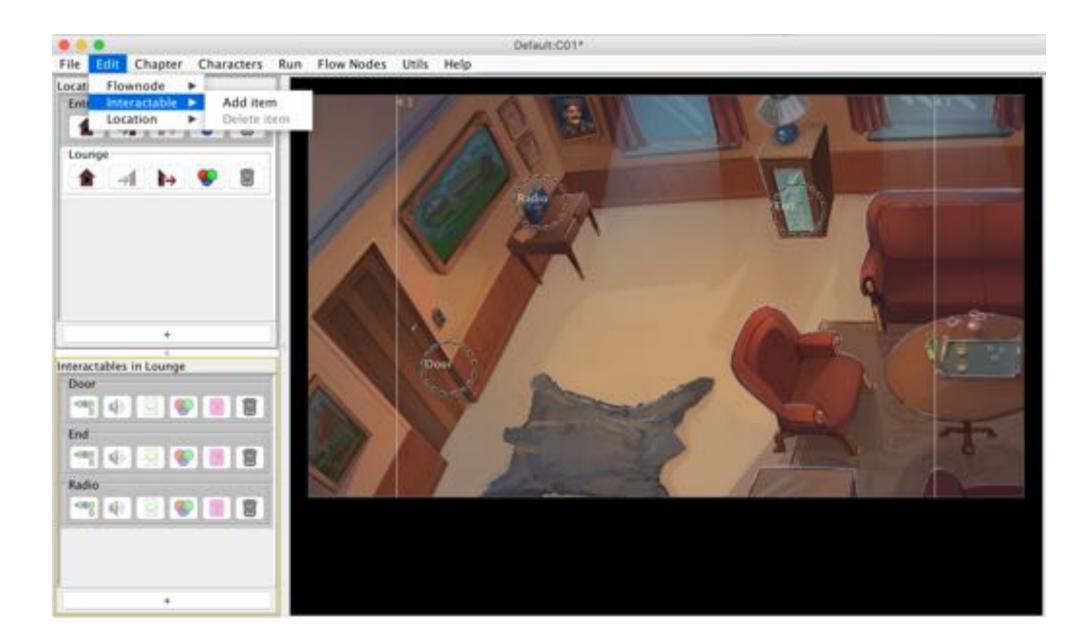


Menu Choices

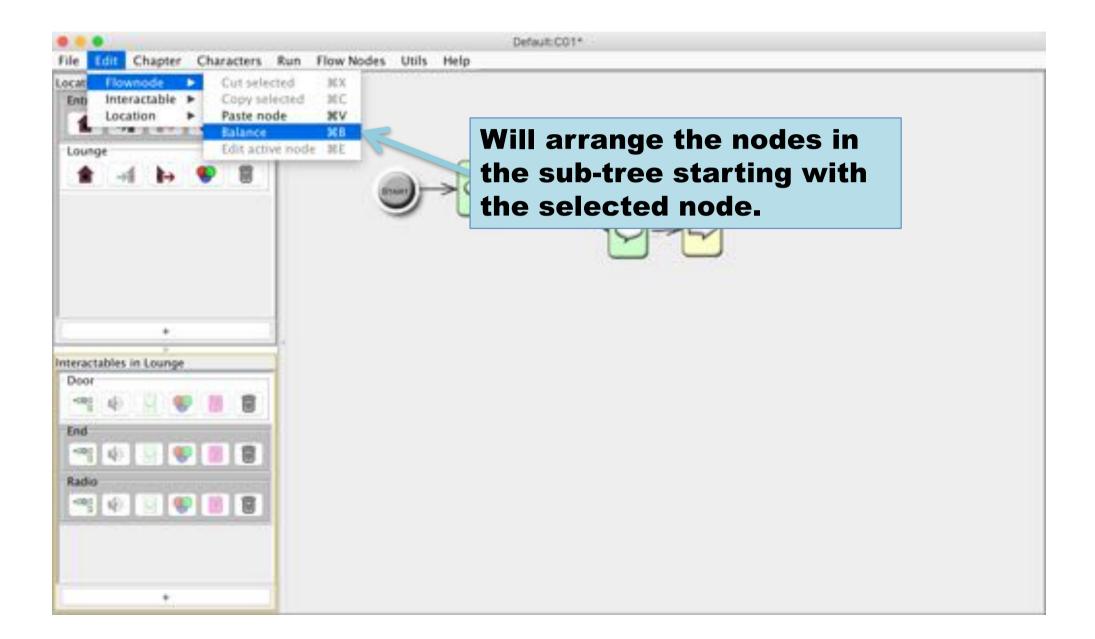
Edit menu alternatives - Locations



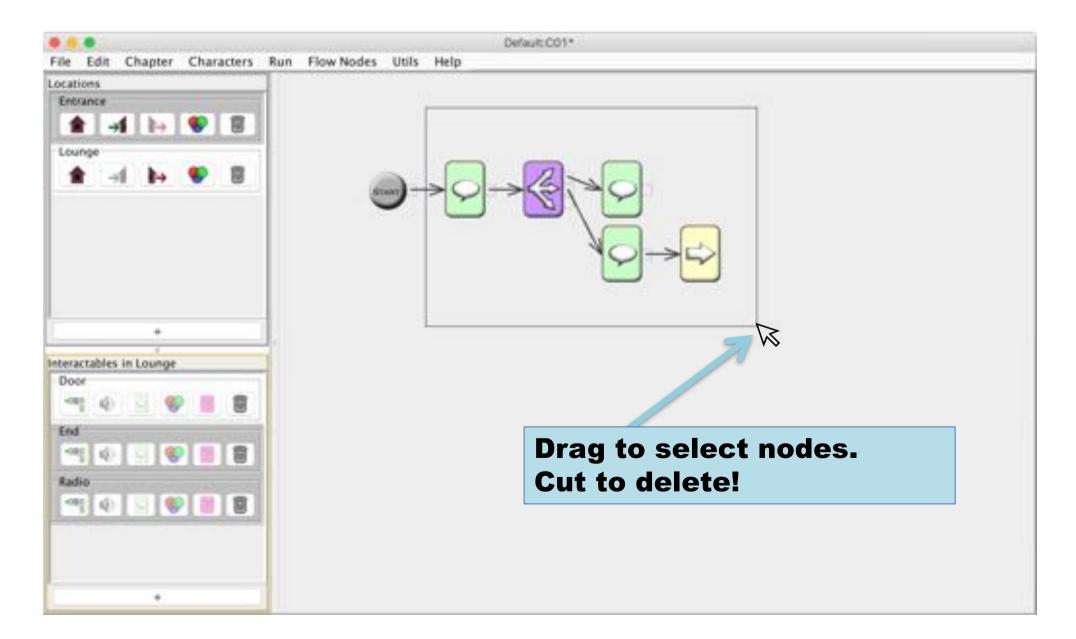
Edit menu alternatives - Interactable



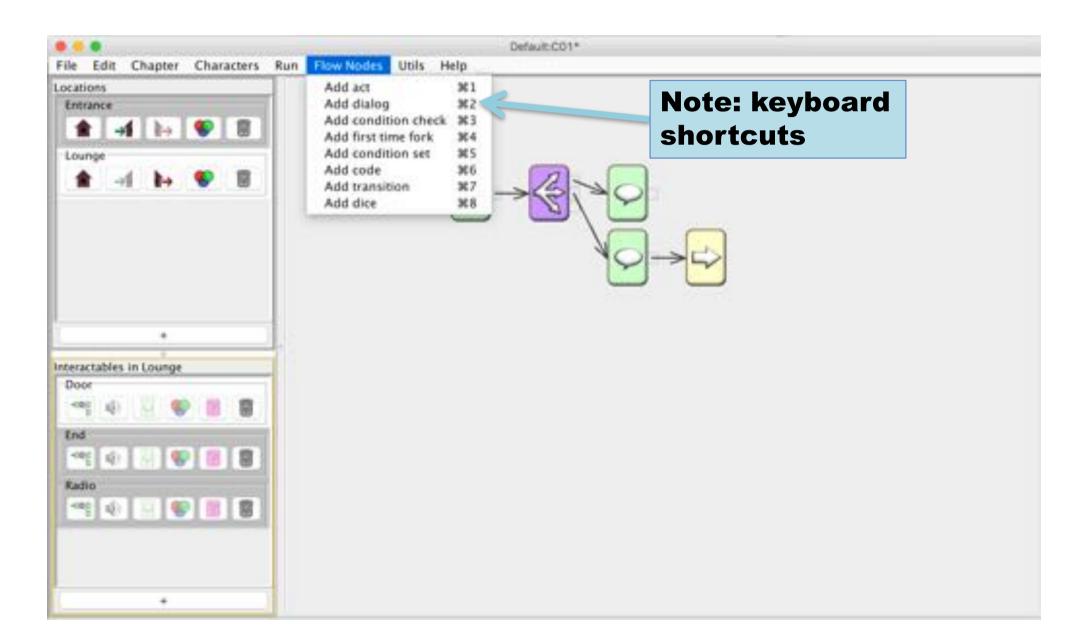
Edit menu alternatives - Flownode



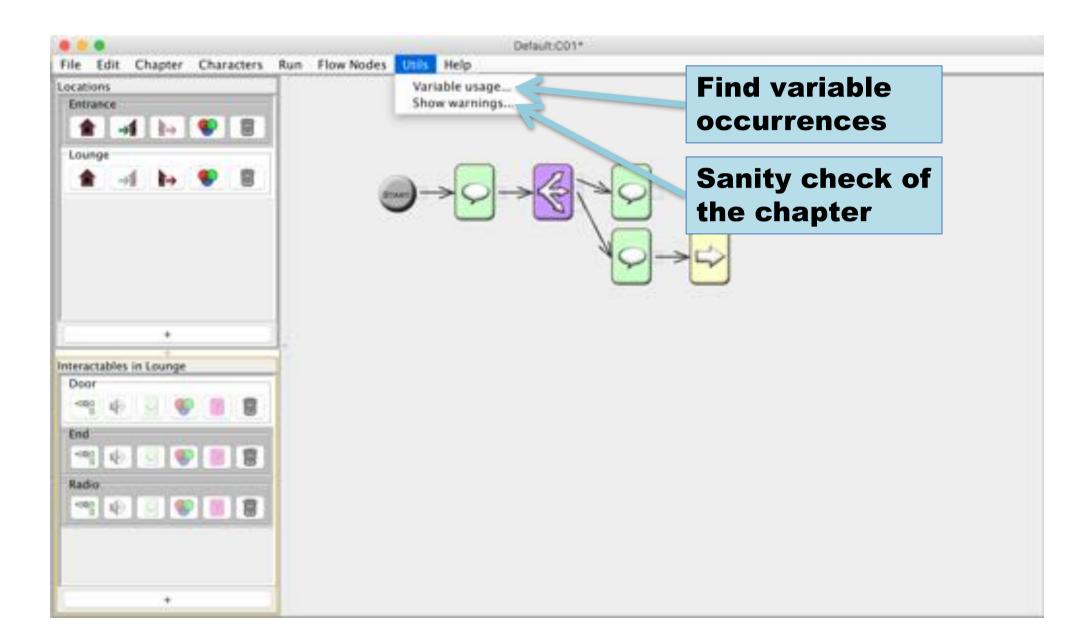
Cut and paste



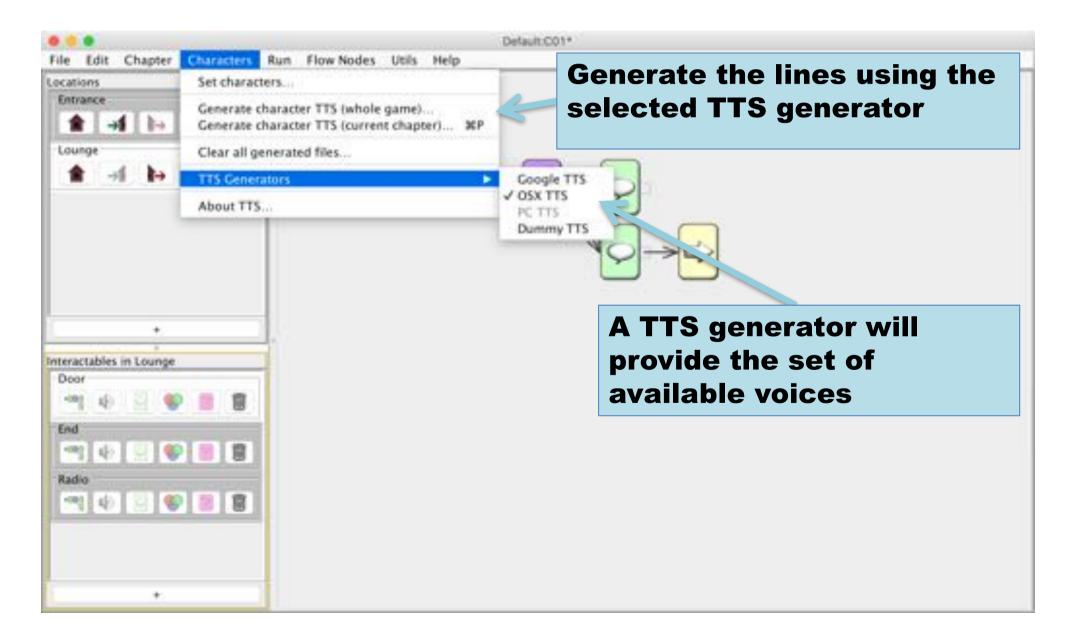
Add flow node



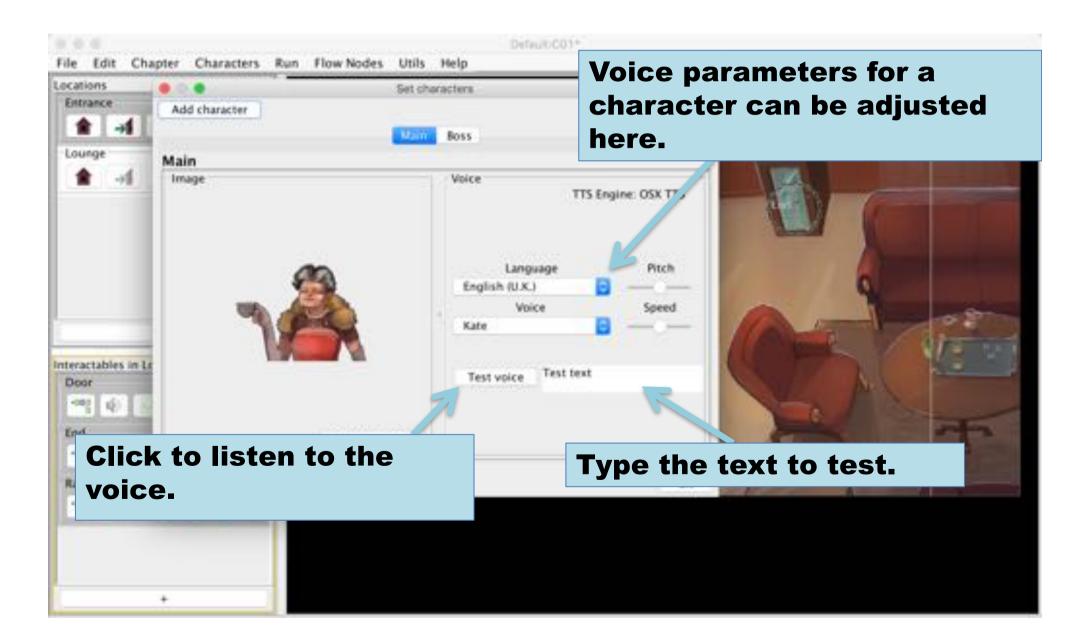
Utils



Text-to-speech (TTS)



Select voices

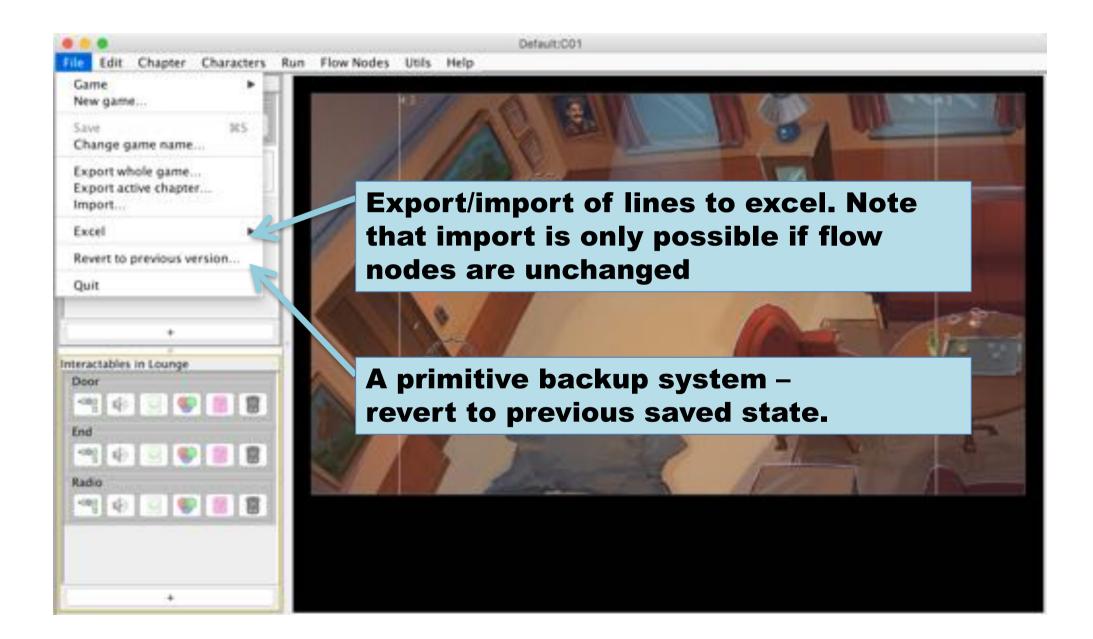




Important Note!

- The dialog audio files generated can only used for prototyping
- The provided generators are not intended for publication.
- If TTS should be used in a distributed game, a TTS generator that is allowed to use for that purpose has to be obtained.

File Menu



Games

- It is possible to work with several independent games
- The name is a global identifier
 - choose it with care
 - It is possible to change it

Export/import

- File ->Export whole game
 - will pack all game data (images & sounds) into a single archive
- File ->Export active chapter
 - Exports only the current chapter
 - Should typically not be used
- Import adds a game or a chapter
 - Depends on how it was exported
 - Chapters will be added after active chapter

Some Hints

- Use arrow keys to traverse flow node tree
- Press Ctrl and use arrows to change spacing
- Ctrl-B to balance subtree (the selected node and forward)
- Hold shift to move subtrees

Alternative way to add interactable



Limitations

- Locations and Interactables can only be deleted
 - No rename or copy-paste
- Editor will not autosave
 - Make sure to save before quit
 - Save frequently (Ctrl-S)

Legal Stuff

- It is not allowed to redistribute this program or use it for commercial purposes.
- Reverse-engineering or repackaging is prohibited.
- The following libraries are used (see lib folder for details)
 - jexcelapi.sourceforge.net
 - simple.sourceforge.net
 - jLayer from javazoom.net
- ©2018 Henrik Engström