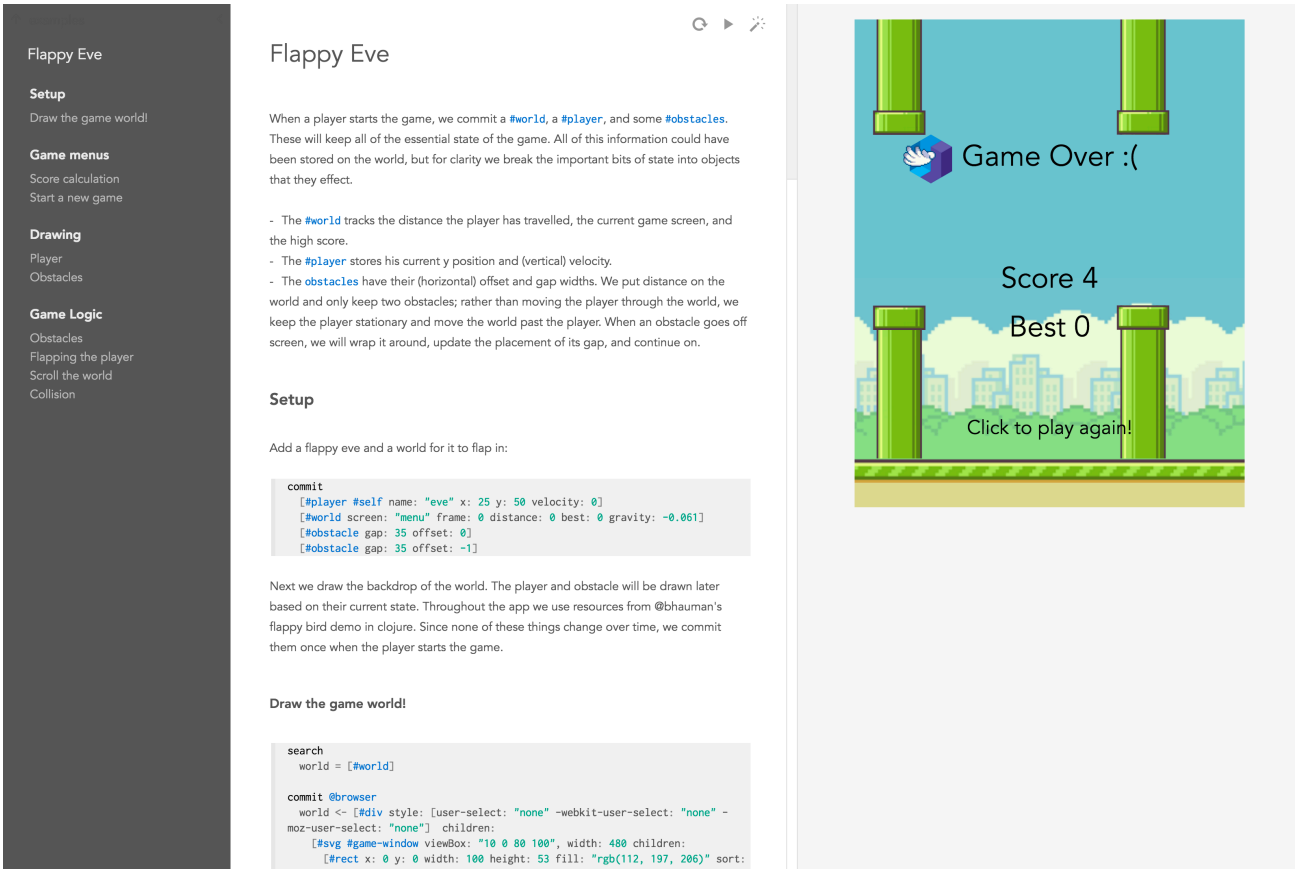
Eve

Kodowa (2015)

Hyper-literate programming environment with a unique database/causality model.



• **State database**. All state is in a database of records. Program fragments read and write to this database, which also encapsulates errors. In this fashion, complex programs are build by composing simple processes that read/write to the database. (Analogous, in some ways, to a spreadsheet.)
• **Causality tracking.** Database enables system to track causality—what led to what. (This design brings Realtalk to mind.)
• **Inspect output** (e.g. HTML) to see what might have created it.
• **Hyperliterate programming**. Code is not just embedded in prose, but a complex program takes the form of navigable hierarchical prose (i.e. a book). Code view is dynamic: select which parts of the program you want to see.
• **Inline errors**
• **Inline data.** Easy inline data visualization (notebook style), with some simple widgets, like bar graphs.

http://witheve.com