Neil Stephenson’s 1995 novel, “The Diamond Age: Or, A Young Lady’s Illustrated Primer”, describes a "smart primer", which is a special electronic schoolbook.

The reader of this book becomes a character in the story told in the book. She is required to learn things and accomplish activities in the physical world for the story in the smart primer to move forward. The smart primer can be thought of as a cognitive tutor that uses narrative and explorations in the physical world to enhance the learning of the reader.

### Android Interface Design

We utilize Android Studio 3 for developing our project. Relying on the high freedom for Android development and plenty of open source APIs, Smart Primer combines some of the best features such as general purpose chatbot, task assisting book buddy, speech recognition and synthesis.

By touching the chipmunk, users can chat with it through the microphone. Using Acapela TTS Voices API, we synthesize kind's voices to make users more engaging in learning.

In book page, users will have a short passage to read and several questions to solve. They can touch the chat button on top right and chat with the chipmunk or they can close the chat box to be more focused on reading the passage.

When users complete the task, they will get certain coins and unlock achievements. They can use coins to exchange goods like clothes. The achievements and the coin systems are still being developed.

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