



Figure 4: Storyboard of experience showing different aspects of the system's capabilities

- [14] Mubbasir Kapadia, Jessica Falk, Fabio Zünd, Marcel Marti, Robert W Sumner, and Markus Gross. 2015. Computer-assisted authoring of interactive narratives. In *Proc. of the 19th Symposium on Interactive 3D Graphics and Games*. ACM, 85–92.
- [15] Mubbasir Kapadia, Seth Frey, Alexander Shoulson, Robert W. Sumner, and Markus Gross. 2016. CANVAS: Computer-assisted Narrative Animation Synthesis. In *Proceedings of the ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA '16)*. Eurographics Association, Aire-la-Ville, Switzerland, Switzerland, 199–209. <http://dl.acm.org/citation.cfm?id=2982818.2982846>
- [16] Mubbasir Kapadia, Alexander Shoulson, Cyril Steimer, Samuel Oberholzer, Robert W. Sumner, and Markus Gross. 2016. An Event-centric Approach to Authoring Stories in Crowds. In *Proceedings of the 9th International Conference on Motion in Games (MIG '16)*. ACM, New York, NY, USA, 15–24. <https://doi.org/10.1145/2994258.2994265>
- [17] Mubbasir Kapadia, Fabio Zünd, Jessica Falk, Marcel Marti, Robert W. Sumner, and Markus Gross. 2015. Evaluating the Authoring Complexity of Interactive Narratives with Interactive Behaviour Trees. In *Foundations of Digital Games (FDG'15)*. 9.
- [18] H. Kato, M. Billinghurst, I. Poupyrev, K. Imamoto, and K. Tachibana. 2000. Virtual object manipulation on a table-top AR environment. In *Proceedings IEEE and ACM International Symposium on Augmented Reality (ISAR 2000)*. 111–119. <https://doi.org/10.1109/ISAR.2000.880934>
- [19] Hui Liang, Junsong Yuan, Daniel Thalmann, and Nadia Magnenat Thalmann. 2015. AR in Hand: Egocentric Palm Pose Tracking and Gesture Recognition for Augmented Reality Applications. In *Proceedings of the 23rd ACM International Conference on Multimedia (MM '15)*. ACM, New York, NY, USA, 743–744. <https://doi.org/10.1145/2733373.2807972>
- [20] S. Malik, C. McDonald, and G. Roth. 2002. Hand tracking for interactive pattern-based augmented reality. In *Proceedings. International Symposium on Mixed and Augmented Reality*. 117–126. <https://doi.org/10.1109/ISMAR.2002.1115080>
- [21] Michael Mateas and Andrew Stern. 2003. Façade: An experiment in building a fully-realized interactive drama. In *Game developers conference*, Vol. 2.
- [22] Maxis. 2000. The Sims. [CD-ROM]. (2000).
- [23] Mojang. 2011. Minecraft. [CD-ROM]. (2011).
- [24] Julie Porteous, Marc Cavazza, and Fred Charles. 2010. Applying Planning to Interactive Storytelling: Narrative Control Using State Constraints. *ACM Trans. Intell. Syst. Technol.* 1, 2, Article 10 (Dec. 2010), 21 pages. <https://doi.org/10.1145/1869397.1869399>
- [25] Mark O. Riedl and Vadim Bulitko. 2013. Interactive Narrative: An Intelligent Systems Approach. *AI Magazine* 34, 1 (2013), 67–77.
- [26] Alexander Shoulson, Francisco M. Garcia, Matthew Jones, Robert Mead, and Norman I. Badler. 2011. Parameterizing Behavior Trees. In *Proceedings of the 4th International Conference on Motion in Games (MIG'11)*. Springer-Verlag, Berlin, Heidelberg, 144–155. https://doi.org/10.1007/978-3-642-25090-3_13
- [27] John Sweller, Jeroen J. G. van Merriënboer, and Fred G. W. C. Paas. 1998. Cognitive Architecture and Instructional Design. *Educational Psychology Review* 10, 3 (01 Sep 1998), 251–296. <https://doi.org/10.1023/A:1022193728205>
- [28] Katie Salen Tekinbaş and Eric Zimmerman. 2003. *Rules of play: game design fundamentals*. MIT Press, Cambridge, Mass.
- [29] Gerhard Weiss (Ed.). 2013. *Multiagent systems* (second edition ed.). The MIT Press, Cambridge, Massachusetts.
- [30] Sean White, Levi Lister, and Steven Feiner. 2007. Visual hints for tangible gestures in augmented reality. In *Mixed and Augmented Reality, 2007. ISMAR 2007. 6th IEEE and ACM International Symposium on*. IEEE, 47–50.
- [31] R Michael Young, Mark O Riedl, Mark Branly, Arnav Jhala, RJ Martin, and CJ Saretto. 2004. An architecture for integrating plan-based behavior generation with interactive game environments. *Journal of Game Development* 1, 1 (2004), 51–70.
- [32] Feng Zhou, Henry Been-Lirn Duh, and Mark Billinghurst. 2008. Trends in augmented reality tracking, interaction and display: A review of ten years of ISMAR. In *Proceedings of the 7th IEEE/ACM International Symposium on Mixed and Augmented Reality*. IEEE Computer Society, 193–202.