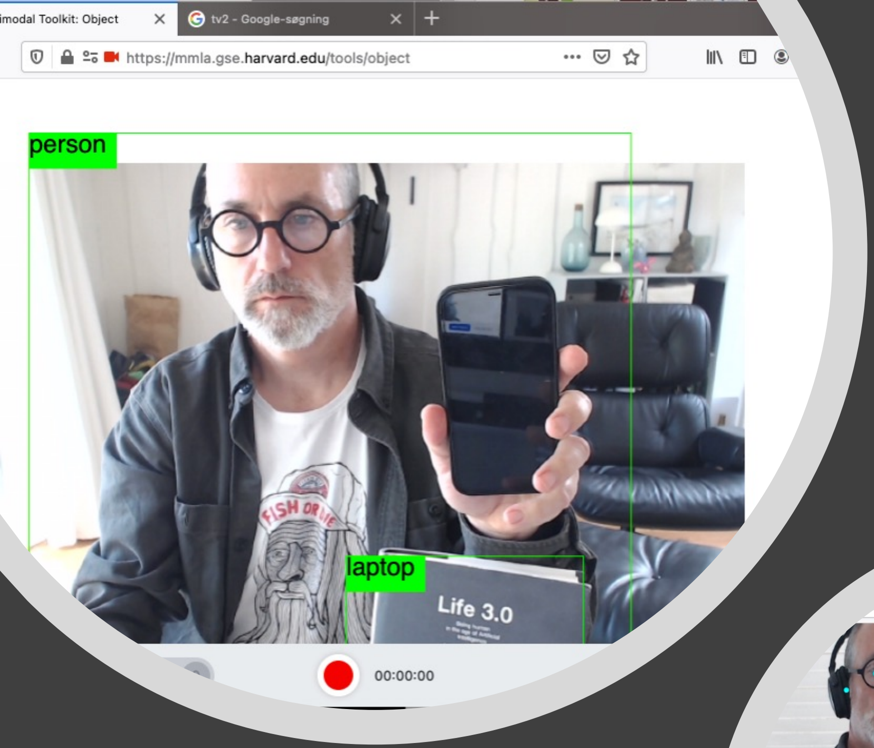
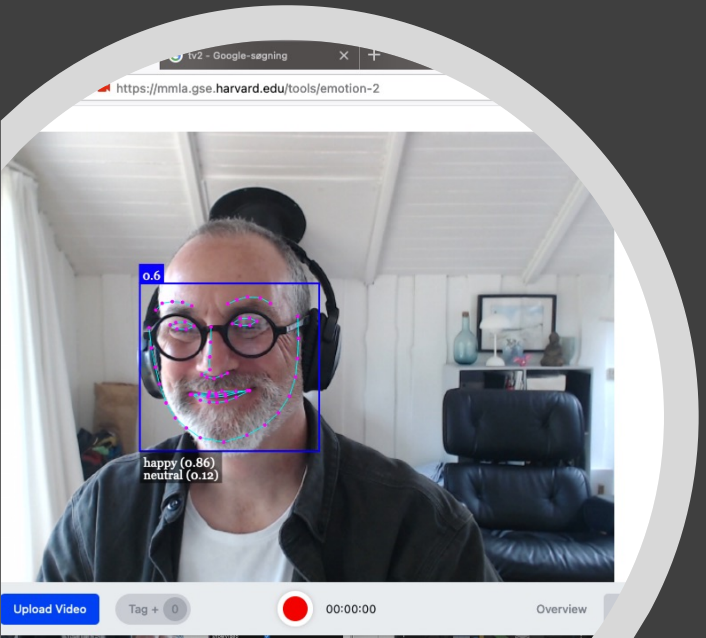
MMLA June 7

LA Course

Resources

- https://mmla.gse.harvard.edu/tools
- Paper: Hassan, J., Leong, J., & Schneider, B. (2021, April). Multimodal Data Collection Made Easy: The EZ-MMLA Toolkit: A data collection website that provides educators and researchers with easy access to multimodal data streams. In *LAK21: 11th International Learning Analytics and Knowledge Conference* (pp. 579-585).
- https://doi.org/10.1145/3448139.3448201



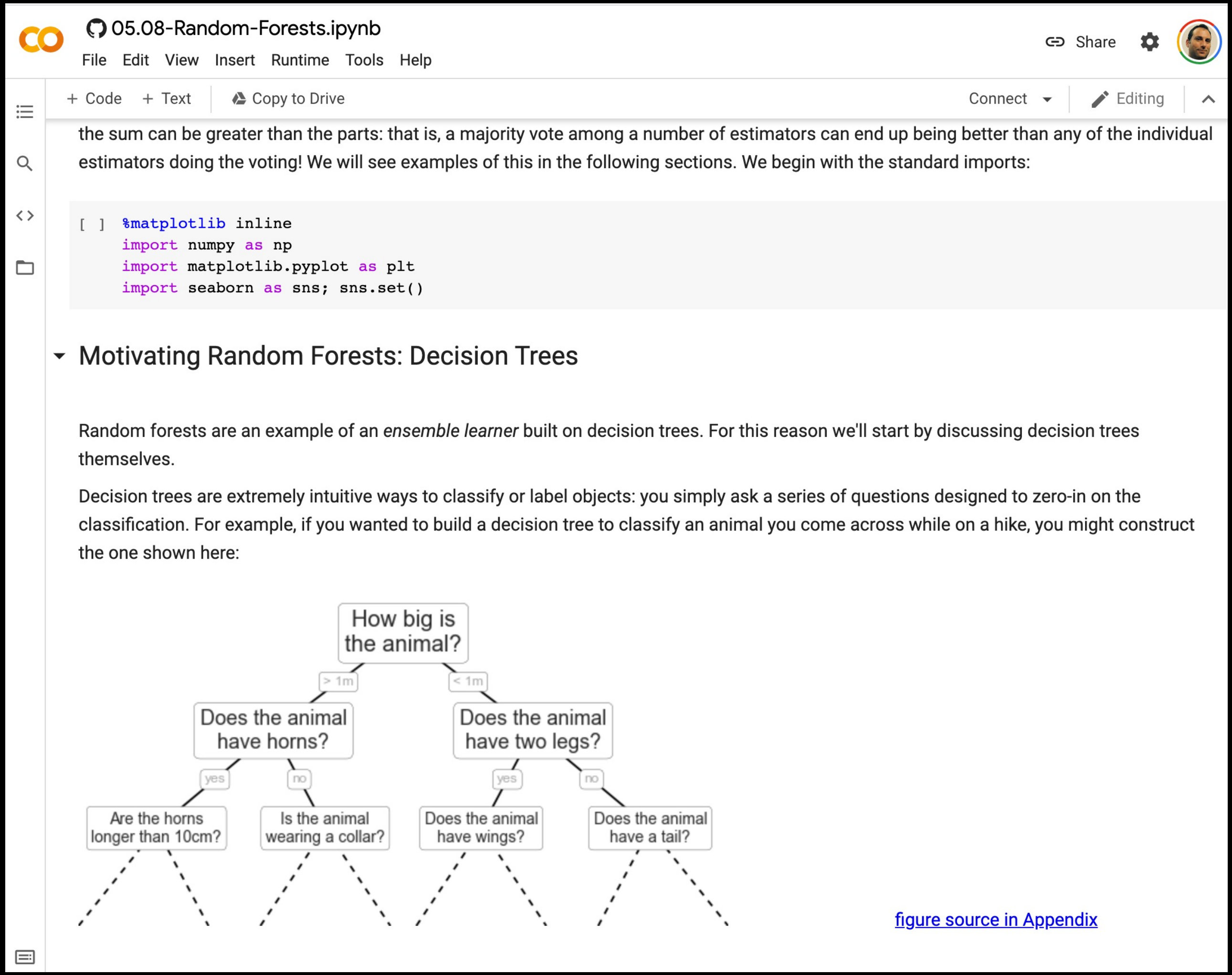


MMLA TOOLKIT

- EASIER WAY TO COLLECT SOME DATA

Google CoLabs

- https://www.youtube.com/watch?v=inN8seMm7UI
- https://colab.research.google.com/notebooks/intro.ipynb?utm_source=scs-index



June 7 Pre-Seminar Work

1. Self-organize! Break into roughly 6 teams (4-5 people in a group) and plan to meet up virtually.
2. Do the Preliminary work in week 22 (May 31 - June 5) or earlier
3. Before your group meetings choose at least 1 or more articles (that you are interested in, individually to read, more is better) from the Literature.
4. For your group session conduct an open workshop using Speculative Design Fiction -

   https://www.invisionapp.com/inside-design/speculative-design/

   https://speculativeedu.eu/approaches-methods-and-tools-for-speculative-design/

   https://medium.com/demagsign/8-spectacular-speculative-designs-44fb129eb4e2
5. The idea is to imagine, the good, the bad, and the ugly of MMLA - for instance how would brain implants work with Learning Analytics, what would be the ramifications across social-economic levels, or even more importantly learning self-regulation.
6. The idea is to be inspired by mood boards (https://en.wikipedia.org/wiki/Mood_board (Links to an external site.)) and future thinking in terms of ethics and privacy while considering the benefits and challenges of LA.

Outputs Expectations

- Each team elect a spokesperson(s) be prepared to discuss with everyone your group's speculative design fiction for MMLA
- Keep in mind the playful nature of this exercise and you go between utopia and dystopia
- We are playing designers, so a broad and shallow approach required instead of a deep and narrow academic view of the world.

Literature

- Blikstein, P., & Worsley, M. (2016). Multimodal Learning Analytics and Education Data Mining: using computational technologies to measure complex learning tasks. Journal of Learning Analytics, 3(2), 220-238. doi:10.18608/jla.2016.32.11
- Buckingham Shum, S. J., & Luckin, R. (2019). Learning analytics and AI: Politics, pedagogy and practices. British Journal of Educational Technology, 50(6), 2785-2793. doi:10.1111/bjet.12880
- Cukurova, M., Giannakos, M., & Martinez-Maldonado, R. (2020). The promise and challenges of multimodal learning analytics. British Journal of Educational Technology, 51(5), 1441-1449. doi:10.1111/bjet.13015
- Di Mitri, D., Schneider, J., Specht, M., & Drachsler, H. (2018). From signals to knowledge: A conceptual model for multimodal learning analytics. Journal of Computer Assisted Learning, 34(4), 338-349. doi:10.1111/jcal.12288
- Martinez-Maldonado, R., Echeverria, V., Fernandez Nieto, G., & Buckingham Shum, S. (2020). From Data to Insights: A Layered Storytelling Approach for Multimodal Learning Analytics. https://doi.org/10.1145/3313831.3376148
- Shankar S.K., Ruiz-Calleja A., Prieto L.P., Rodríguez-Triana M.J., Chejara P. (2019) An Architecture and Data Model to Process Multimodal Evidence of Learning. In: Herzog M., Kubincová Z., Han P., Temperini M. (eds) Advances in Web-Based Learning – ICWL 2019. ICWL 2019. Lecture Notes in Computer Science, vol 11841. Springer, Cham. https://doi.org/10.1007/978-3-030-35758-0_7
- Vujovic, M., Hernández-Leo, D., Tassani, S., & Spikol, D. (2020). Round or rectangular tables for collaborative problem solving? A multimodal learning analytics study. British Journal of Educational Technology, 51(5), 1597-1614. doi:10.1111/bjet.12988