





Binaural audio

HRTFs as a model

History

Current importance



Transfer Functions with Principal
Components Analysis and
Simulated Annealing based on
localization errors in 3D space



Measurement of HRTFs

- Using non-individualised HRTFs
- Existing individualisation methods/models
- Why is continuing work into this important?





- UX is the problem
- Proposed solution
- Why this?
- Why now?





• What is PCA?

PCA on HRTF data

PCA > other models

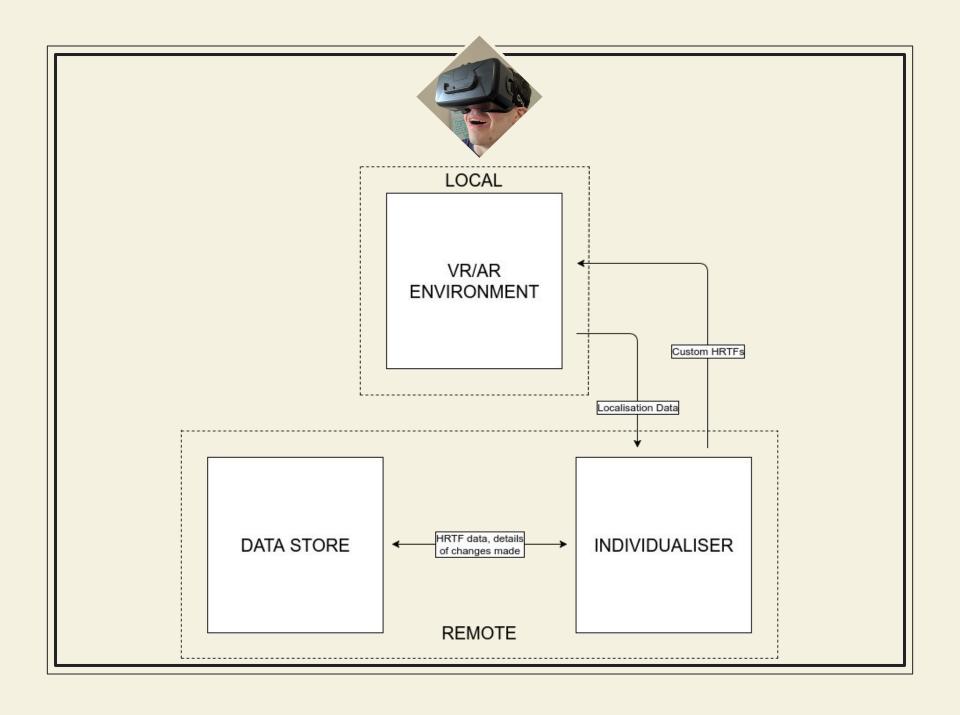




- What is Simulated Annealing?
- Why choose SA?
- SA with PCA

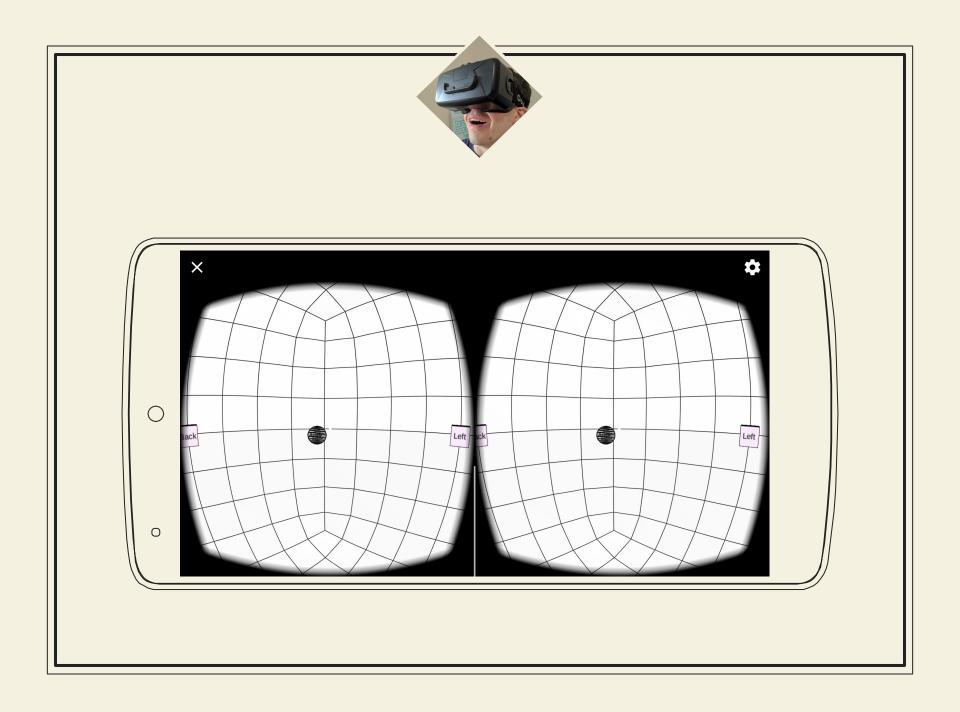


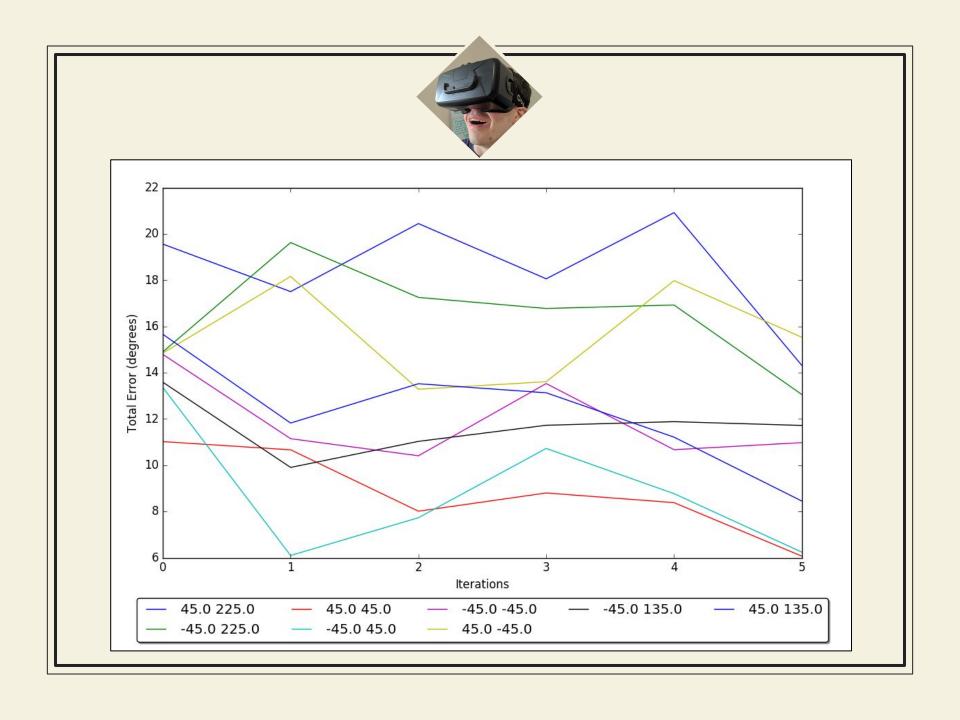
Final Implementation





Testing and Results







To The Future!



- Localisation errors vs. PCW modification
- Get hype for big data
- Less input data, better output
- Inevitably... Machine learning

