Let me remind you what we wanted to do. Each polyglot will be exposed to audios of stories in their native language,

yep, excerpts from the Bible stories

4 languages that s/he speaks, 1-2 cognate languages, and 2 languages that s/he does not speak.

* L1 – 4 are languages they speak
* L5 -6 are cognates
  + If <2, L6 is music
* L7 – 8 are languages they do not speak
* 2 unknown languages are always the same (
* If <2 cognates, what should L6 be?

Right: so each participant will get exposed to 8 languages.

Ideally, it would be nice to have the same distribution of languages across individuals (i.e., 4-2-2, familiar-cognate-unfamiliar), BUT this will likely be tricky given the variability in this special population. So, we will allow for some flexibility wrt what we do for the 4 unfamiliar languages such that the number of cognates can vary between 0 and 2.

 For each language, participants will listen to stories and textured stories. Is this right, Ev?

That's correct.

Here is the description I wrote eons ago:

\* I think for **the new polyglot scans**, we should do something like the following:

Include 8 languages, with the set of languages custom-selected for each individual, although perhaps for the completely unfamiliar languages we can use the same ones (?).

So there would be a total of 16 conditions: 8 intact-speech conditions + 8 quilted-speech conditions.

This means that we should create *a new flexible experimental script* for presenting these materials.

Any given run would include all 16 conditions and would be structured like this:

Fix L1 S1 L2 S2 L3 S3 L4 S4 Fix S5 L5 S6 L6 S7 L7 S8 L8 Fix

Then the next run would have the following condition order (so that across the runs we get our palindromic design):

Fix L8 S8 L7 S7 L6 S6 L5 S5 Fix S4 L4 S3 L3 S2 L2 S1 L1 Fix

And we should have a few other possible orders; at least e.g:

Fix S5 L5 S6 L6 S7 L7 S8 L8 Fix L1 S1 L2 S2 L3 S3 L4 S4 Fix

Fix S4 L4 S3 L3 S2 L2 S1 L1 Fix L8 S8 L7 S7 L6 S6 L5 S5 Fix

We can have fixation blocks be 12 sec long, so the entire run would take 16 sec \* 16 blocks + 12 sec \* 5 blocks = 256 + 60 = 316 sec (5 min 16 sec)

Given that we have 8 clips per condition, it would take 8 runs to go through all the materials, which is totally doable.

The materials should be on Dax in some expt directory called POLYGLOT or smth like that.

In addition to this critical expt, each participant should do the standard visual lang localizer, the MD localizer (spatial WM), and perhaps another MD task (in order to better assess the specificity of the lang regions in this population). **Idan: perhaps we can use your arithmetic task?**

 Ev, I remembered that you also scanned Poly01 while he was listening to nonlanguage (music and env. sounds). Do we want to include nonlanguage stimuli?

Nah, I don't think so; let's skip this for the initial study.

QUESTIONS FOR OLESSIA

Should the condition order for a block always be either

SL SL SL … or LS LS LS

Should we always have 1st block of a run be one pattern and the second block be another?

You just need to give

L1

L2

L3

L4

L5

L6

L7

L8

INPUTS

Subject ID, run num, condition order

Also, before each run, you will have to create a csv that has the languages to use