## **ELAN for APLS** Data Science for Linguists- Spring '24

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# 01 Background on APLS

## **Background on APLS**

### • Archive of Pittsburgh Language and Speech (APLS)

- Database of time-aligned transcripts of audio files powered by LaBB-CAT
  - LaBB-CAT: open source software written by Robert Fromont and Jen Hay (NZILBB), made to store audio and visual recordings and their transcripts
- Pittsburgh Speech and Society Project (PSSP)
  - Directed by Barbara Johnstone and Scott Kiesling
  - From 2003-2005
  - Sociolinguistic interviews with Pittsburgh residents from 4 different neighborhoods
- Still under construction, but will become available to the public
  - ~24 hours uploaded out of ~48 hours

## **Potential Research with APLS**

### • Search features in APLS

- View entire transcripts and download into many different formats (TextGrid, EAF, PDF, plain text, etc.)
- Search for specific words, see them in context, and export as CSV/TextGrid
  - Can use <u>regular expressions</u> when searching (ex: .\* for 0 or more of any character)
  - Can use many different <u>projects/layers</u> when searching (ex: lemma, morphology, phonology, syntax, etc.)

### • Applications

 Provides a large quantity of usable data for researchers looking for specific phonemes/morphemes/words used by Pittsburgh speakers

## **Potential Research with APLS**

#### Lemma layer for word "go"

CB10	interview4.eaf	- Barbar	a Johnstone
48. 💟	you	go	to
49. 🔽	to	going	to
50. 🗹	thing	going	on
51. 🔽	she	went	back
52. 🔽	you	go	on
53. 🗹	you	go	to
54. 🗹	actually	go	there
55. 💟	ever	go	to
56. 🗹	you	go	to
57. 💟	you	go	for
58. 💟	were	going	to
59. 🗹	you'd	go	down
	interview5.eaf	- Barbar	a Johnstone
60. 🗹	you	go	down
61. 🗹	about	going	out
62. 🗹	of	going	out
63. 🔽	that	going	out
	interview1.eaf -	Barbara	a Johnstone
64. 🗹	you	go	good
65. 🗹	I	went	there
66. 💟	mostly	went	to
67. 🗾	wife	go	on
68. 💟	just .	go	back
69. 🗹	wife	go	out
70. 🗹	you	go ?	

#### Transcript with multiple layers



## **Recent Advances in Our Transcription**

- The Beautiful Monster
  - Combines ASR and STT to output a fully segmented and transcribed file!
    - ASR: an AI segmented file (courtesy of Alejandro Ciuba)
    - STT: Batchalign file (courtesy of Houjun Liu, a freshman at Stanford :0)
- ELAN File Checker 🗸
  - Input a completed ELAN file and it checks for...
    - Valid tier names and attributes
    - Out-of-dictionary words
    - Overlaps
  - If all of those come up clean, it outputs an ELAN file with aligned segment boundaries

# 02 Download and First Steps

## Download

Get ELAN for free on the internet: https://archive.mpi.nl/tla/elan/download

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## **First Steps**

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### **Segmentation**

Used for creating and adjusting segments on all tiers

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Options Window Help

### **Transcription**

Used for inputting transcriptions into segments

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Interlin	earization	Mode	

### Annotation

Used for editing transcriptions directly on segments

#### We only really use these two

## **Segmentation Mode**

Slider can slow down and speed up rate of speech

Play and pause button, among other things

The two channels: top is usually interviewer, bottom is usually interviewee

You can change current tier by double clicking the one you want to work with (or by using the up and down arrows)

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## **Segmentation Mode**

Right-click on the segment (it HAS to turn green)

These are the 4 you will use most often

Can also use hotkeys...but we have had issues with them in the past

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## **Transcription Mode**



## **Transcription Mode**

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## **Annotation Mode**

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	Can't adjust segments but can edit text inside the
	as a monte by double clicking them
	segments by double clicking them

Shows number of segments on each tier

Double click the tier you want to work on

### **Annotation Mode**



#### Copy segments onto other tiers:

- 1. Choose the tier that currently has the segment
- 2. Click segment until it is highlighted in purple
- 3. Double click on the tier that you want the new segment on
- 4. \*Optional\* write in the transcription directly

# 04 Shortcuts and Hotkeys

## Shortcuts

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## My Shortcuts: Segmentation

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Reload All

	Edit Keyboard Shortcuts		
General Annotation Mode Media Syn	chronization Mode	Transcription Mode	Segmentation Mode
Description	Category		Shortcut Key
et time 1 second back	Media Navigation		∆⊷
plit annotation	Annotation Editing		ℋL
io to next scrollview	Media Navigation		<b>第PageDown</b>
lerge with Next Annotation	Annotation Editing		企業A
io to next pixel	Media Navigation		ዕዝ→
io to next frame	Media Navigation		ж→
egmentation Key	Annotation Editing		A
io to previous pixel	Media Navigation		ዕ∺←
To to begin of media	Media Navigation		ЖB
et next tier active	Tier and Type		Ļ
witch to Bulldozer mode	Miscellaneous		
io to time	Media Navigation		жG
witch to shift mode	Miscellaneous		
o to previous scrollview	Media Navigation		<b>#PageUp</b>
oom to default size (in the main viewer)	Miscellaneous		¥0
witch to normal propagation mode	Miscellaneous		
o to end of media	Media Navigation		ЖE
et previous tier active	Tier and Type		Ť
lerge with Annotation Before	Annotation Editing		企業B
love crosshair to left / right of selection	Selection		₩/
lay around selection	Media Navigation		企N
lay selection	Media Navigation		企M
oggle the playback rate	Miscellaneous		າະສR
to previous frame	Media Navigation		¥←
love crosshair to center of selection	Selection		て第/
lay / pause step-and-repeat mode	Media Navigation		
elete annotation	Annotation Editing		$\otimes$
et time 1 second ahead	Media Navigation		公→
lay / Pause the media	Media Navigation		L.
oggle the playback volume	Miscellaneous		ሰ <b>ж R</b>
oom out (in the main viewer)	Miscellaneous		ж-
lay Around Selection	Media Navigation		
lear selection	Selection		<b>①</b> 乙C
Nodify the annotation time by entering time val	Annotation Editing		企業M
loom in (in the main viewer)	Miscellaneous		<b>%</b> I
hange rate and volume toggle value	Media Navigation		

Save

Reload Default

Edit Shortcut

Segmentation Key	А
<b>Delete Annotation</b>	Delete
Zoom Out	Command Zero
Zoom In	Command I
Play/Pause	Return

## **My Shortcuts: Transcription**

	Edit Keyboard Shortcuts			
General Annotation Mode Media Syn	chronization Mode	Transcription Mode	Segmentation Mo	
Description	Category		Shortcut Key	
Set time 1 second back	Media Navigation		≙⊷	
Edit in Annotation Mode	Miscellaneous			
Merge with Next Annotation	Annotation Editing		<b>☆</b> ₩A	
Go to next pixel	Media Navigation		∂∺→	
Go to next frame	Media Navigation		ж→	
Go to previous pixel	Media Navigation		ዕ∺⊷	
Cancel changes made to the annotation	Annotation Editing		গ	
Toggle Loop mode	Media Navigation		ℋL	
Hide all tiers linked with this tier	Miscellaneous			
Zoom to default size (in the main viewer)	Miscellaneous		<b>#</b> 0	
Saves the current annotation and moves to the	Annotation Editing		له	
Moves right to the next cell and saves the curre	Annotation Navigation	ı	$\searrow$	
Plays back the current annotation from the begi			☆→	
Merge with Annotation Before	Annotation Editing			
Move crosshair to left / right of selection	Selection		¥ /	
Play around selection	Media Navigation		^☆Space	
Moves left to the next cell and saves the current	. Annotation Navigation	ı	7.←	
Play selection	Media Navigation		☆Space	
Go to previous frame	Media Navigation		÷#	
Move crosshair to center of selection	Selection		~*/	
Make a tier editable / non-editable	Miscellaneous			
Delete annotation	Annotation Editing		企Delete	
Set time 1 second ahead	Media Navigation		☆→	
Moves down to the next cell and saves the curr	Annotation Navigation	ı	77	
Play / Pause the media	Media Navigation		→I	
Moves up to the next cell and saves the current	. Annotation Navigation	1	N1	
Zoom out (in the main viewer)	Miscellaneous		<b>#</b> -	
Clear selection	Selection		ት እር	
Zoom in (in the main viewer)	Miscellaneous		₩=	

Move to next segmentReturnPlay/PauseTab

## THE MOST IMPORTANT SHORTCUT:





#S

gg5





## **My Process**



# Thanks! Questions?

## **Sources and Helpful Links**

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Alejandro Ciuba's Website:

https://alejandrociuba.github.io/

Houjun Liu's LinkedIn:

https://www.linkedin.com/in/houjun-liu/