

Using Phon for IPA Transcription, Phonological Analyses, and Treatment Target Selection

Step 1: Record a Speech Sample

1. For a more complete analysis of a child's sound system, we recommend using single-word probes that sample each phoneme and consonant cluster multiple times, in multiple contexts.
2. Phon can also extract phonological information from transcriptions of a connected speech sample.

Step 2: Open your Transcript for Phonological Analysis within Phon

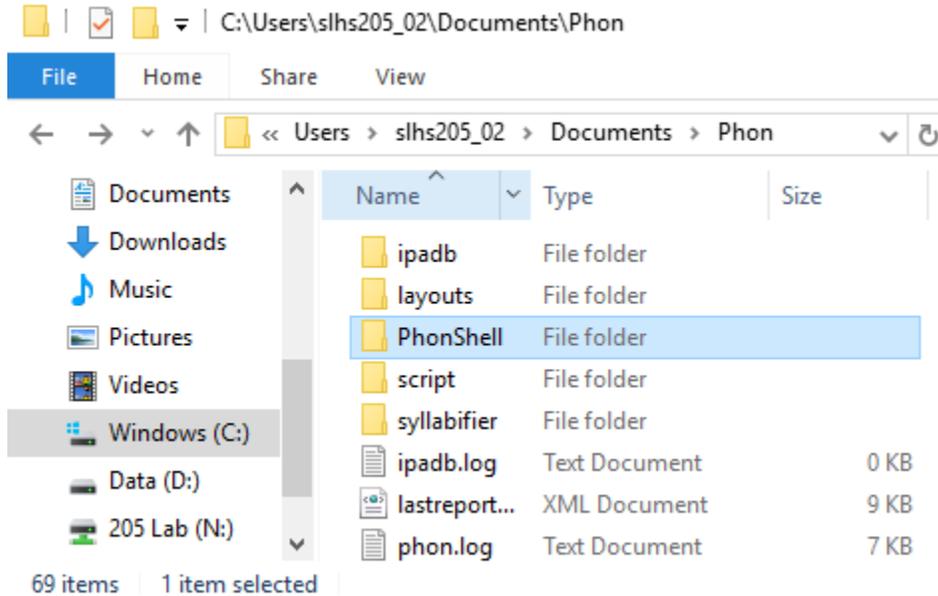
3. **This is a very abbreviated guide to transcription and analysis with Phon.** The full Phon manual is available within the program by selecting Help > Phon Manual from any window.
4. Download Phon (a free, open-source program), available here: <https://www.phon.ca/phontrac>
5. In the [Project Manager] window, create a Corpus (e.g. all the transcriptions for a given child) and a Session (the particular probe or sample you will transcribe and analyze).
6. Under [Session Information], identify if there are multiple speakers and link the session to the recorded speech sample.

Step 3: Segment and Orthographically Transcribe the Sample

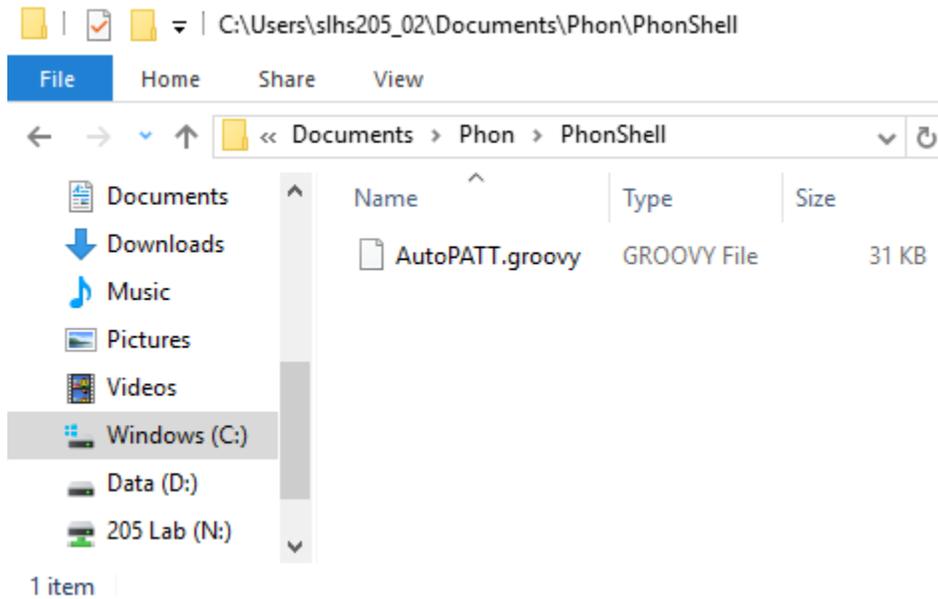
7. Select View > Segmentation to divide the sample into individual Records. For a language sample, segment at the end of each utterance. For a single-word probe, set the default length of each Record to 1,000–2,000 milliseconds (approximately the length of a word with some room to spare) and segment at the end of each child production of a probe word.
8. Enter the orthographic transcription of the child's productions.

Step 4: Automatically Transcribe Target IPA

9. First, change to the [Transcription] layout by selecting View > Load layout > Transcription. In the [IPA Lookup] window, the IPA for all Records in the session can be automatically transcribed at once, or you can generate transcriptions for each Record individually.
10. To automatically generate IPA target productions for the entire session, in the [IPA Lookup] pane, select [Auto-transcribe Session] in the top right corner. In the window that appears, check [Overwrite] and [IPA Target] (this will fill in the [IPA Target] Tier and overwrite anything written in them already).
 - a) [All records] should be selected. Click [Ok].
 - b) You may also choose to fill in the [IPA Actual] Tier (this is where you will transcribe the child's actual production). If the child's production is similar to the target adult



*The AutoPATT script must be saved in Phon's user directory, usually **User > Documents > Phon**. A folder, titled **PhonShell**, must be created in the **User > Documents > Phon** directory.*



*The AutoPATT script must be saved within the **PhonShell** folder.*

Components of AutoPATT Output

Treatment Targets and Sounds to Monitor:

Phonological Assessment and Treatment Target Selection (PATT)

Done.

In PATTStepOne()

Looking at p and l

Looking at p and r

Looking at t and r

Looking at k and w

Looking at k and r

Targets after Step One: [spl

spɹ

stɹ

skw

skɹ]

Phones to monitor: [f

θ

ð

ʃ

ʒ

Phonemes to monitor: [g

f

θ

ð

z

Clusters to monitor: [kw

pj

kj

bj

gɹ

Minimal Pairs:

'beɪ:	'seɪ:	'ʒeɪ:	'peɪ:	'leɪ:	'teɪ:
'bi:	'ki:	'di:	'ti:	'ʒi:	'thi:
'bæb	'bæp				
'bæp	'bæb				
'bæ:	'mæ:	'tæ:			
'be:	'je:	'le:	'de:	'tʰe:	
'bɪɹ	'dɪɹ	'tʰɪɹ			
'bɪ:	'pɪ:	'mɪ:			
'baɪn	'baɪt				
'baɪt	'naɪt	'baɪn			
'bɔɹ	'pɔɹ	'hɔɹ			
'bɔ:	'nɔ:				

Phonetic and Phonemic Inventories:

	bilabial		labiodental		interdental		alveolar		palatoalveolar
plosive	p,ɸ	b					t,tʰ	d	
nasal		m						n	
fricative				v			s		
other fricative									
affricate									tʃ
approximant									ɹ
lateral								l	
glide		w							

Consonant Cluster Inventory:

tʃɹ	bɹ	bl	dɹ	dl	kl	tɹ	kɹ
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