NetProF – Networked Pronunciation Feedback

A joint effort of the
Defense Language Institute (DLI)
and MIT Lincoln Laboratory

Need Help? Questions? Contact us.   44 v1.1.8 02/08_15

NetProF: User Manual

https://np.ll.mit.edu/

Select your language.

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Table of Content

Login and User Account

a. <u>Login</u> with *Username* and *Password*, if applicable.

b. <u>Sign up</u> as a "New User:"
   i. Create a *Username*.
   ii. Enter your *Email* (any valid email address).
   iii. Create a *Password.*
   iv. Select *Student* or *Teacher.*
       Please do not check "*Are you an assigned reference audio recorder?,*" *as this* is reserved for recording studio work only.
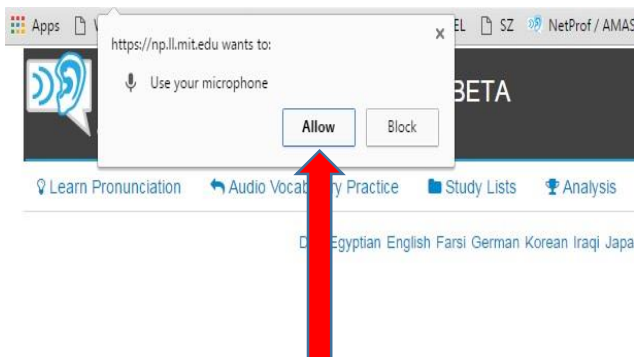   v. Click "*Sign Up.*"

Microphone

Upon logging in, a dialog window will appear near the NetProF logo in the top left corner that requests sharing or enabling the microphone.
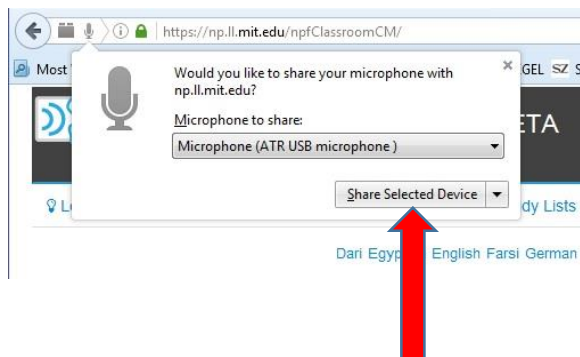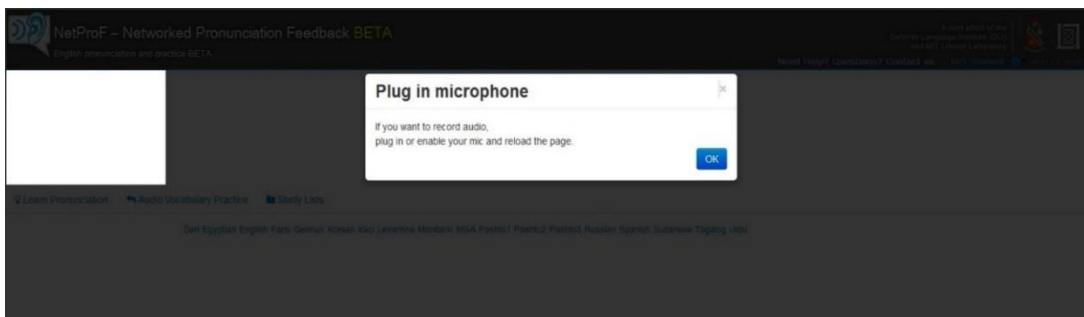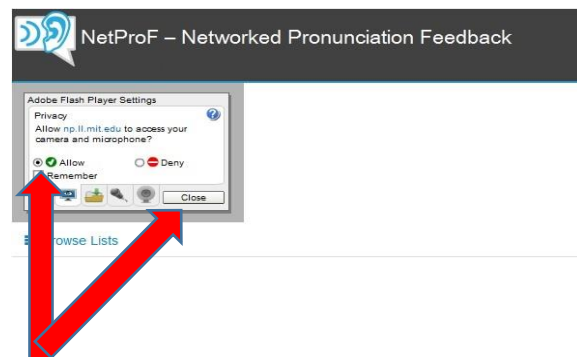
Google Chrome:
Click "**Allow**"

Mozilla Firefox:
Click "**Share Selected Device**"

or **Adobe Flash Player Settings:**
Click "**Allow**" then "Close"

Please note: A microphone is required to fully use NetProF. All laptops and Macbooks have built-in microphones. If you are on a desktop computer and no external microphone is connected you will be prompted by NetProF to plug in a microphone.

Overview of NetProF Screen

Main functions:
1. Learn Pronunciation
2. Audio Vocab. Practice
3. Study Lists
4. Analysis

Word / Phrase used in context: written and spoken

Score History: Track Sound Accuracy over time.

NetProF uses Basic Course vocabulary and curriculum in Unit/Lesson (varies by language). Click buttons to select a particular Unit and/or Lesson.

Sound accuracy / Pronunciation feedback.
(ASR = Automatic Speech Recognition)

Word/Phrase to practice.

To record, click and hold (!) "*Record*" button.

Reference recording of the word/phrase in 4 options: male regular + slow, female regular + slow

Each word/phrase was recorded by dozens of native speakers. This screen only shows one recording as reference.

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Part 1:

Learn Pronunciation

Functions

Example:
Unit 1 selected,
Lesson 1F
selected

Total of 100
items in this
Chapter.

Word/Phrase to
practice,
highlighted in
blue in the item
list.

To record, click
and hold (!)
"*Record"* button.

Word/Phrase used in context:
written and spoken (male and
female recording)

How to…

Listen to the reference recording: male voice (regular and slow speeds) & female voice (regular and slow speeds)

To record your own voice, click and hold (!) the "*Record*" button. Release when finished recording.

Target language word is broken down into individual sounds.

Student recording analysis: individual sounds are compared to native speakers' recordings (green: OK to red: needs more practice)

Sound accuracy / Pronunciation feedback.
(ASR = Automatic Speech Recognition)

Download Student recording

NetProF allows student recordings to be downloaded as mp3 files to a local hard drive.
The MP3 files can then for example be submitted to teachers or used as an audio portfolio.

1. After recording, click "*Download*".

2. Select "Save File" in the popup window and click *"OK"* to save mp3 file to local hard drive.

Submit downloaded file via email or shared network folder.

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Part 2:

Audio Vocabulary Practice

Functions

Flashcards appear in random order. Item tracker based on total available in Lesson.

Audio
On: Audio plays automatically when flashcard appears
Off: Click on FL word to play audio (highlighted in yellow)

Play On Mistake
On: Audio is repeated after incorrect pronunciation.
Off: Audio is not repeated after recording.

Analyze and track performance

Shuffle
Change order of cards.

Start With
[Language]: Card only shows FL; student needs to know English.
Both: shows FL and English.
English: Shows only English; student needs to know word in FL to record.

How to ...

Select Unit and Lesson
(terminology might differ depending on language program)

Press and hold (!) space bar on computer or click and hold (!) mouse button to begin recording, release to stop.
The next card will be displayed automatically.

Click *Start Over* to redo the exercise.

Click *Shuffle* to change order of cards.

After recording

A green checkmark is displayed when student recording is in Recording in "Correct" range.

"Incorrect" recording only shows a red X, for example:

to drive
驾驶
✗

Pronunciation feedback score (no feedback on individual sounds, unlike in "Learn Pronunciation").

Analyze and track performance (different from "Analysis" function)

Learn Pronunciation | Audio Vocabulary Practice | Study Lists | Analysis

Unit | Clear | 1 | 2 | 3 | 4 | 5

Lesson | Clear | 1A 1B 1C 1D 1E 1F 1G 2 3 4 5 6 | 7 8 9 10 11 12 | 13 14 15 16 17 18 | 19 20 21 22 23 24 | 25 26 27 28 29 30 | 31 32

Download

Unit 1 and Lesson 1F

Remaining 68
Incorrect 21
Correct 11
Pronunciation 48

to read
看书

✓

Heard 看书

Score 43%

32 of 100

AUDIO

START WITH
Mandarin
Both
English

PLAY ON MISTAKE
On | Off

Shuffle

C Start Over | See your scores

Dari Egyptian English Farsi German Korean Iraqi Japanese Lev... ne Mandarin MSA Pashto1 Pashto2 Pashto3 Russian Spanish Sudanese Tag... rdu

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Part 3:

Study Lists

Create a New List
...using the Study Lists function

1. Click on "Study Lists" tab

2. "Create a New List" tab

Learn Pronunciation   Audio Vocabulary Practice   Study Lists

Study Your Lists   Study Visited Lists   Create a New List   Browse Lists

Create a New List

Title

NetProF Demo

Description (optional)

Course Info (optional)

Keep List Public/Private?

Public   Private

Create List

Dari Egyptian English Farsi German Korean Iraqi Levantine ... Pashto2 Pashto3 Russian Spanish Sudanese Tagalog Urdu

3. Add descriptive "Title"

4. Keep List Public/Private?
Public: List can be viewed and used by any logged-in user under "Browse Lists"
Private: List can only be viewed and used by user who created the list; the list is located under "Study Your Lists"

5. Click "Create List"

Create a New List
...using the Learn Pronunciation tab function

Unit 1 Lesson 1F Item 5806

捣乱

dǎo luàn

to create a disturbance

Regular
Slow

捣乱

| d | a3 | o3 | l | u4 | a4 | n |

Record

Previous   Next   Add to List ▲   ☰ New List

NetProF Demo   OK

tian English Farsi German Korean Iraqi Levanti...   ...ian Spanish Sudanese Tagalog Urdu

1. Click on "New List" button. The new list is set to Private by default.

2. Enter a list title.

3. Click "OK."

Add existing items to user study list

Use this feature to add challenging words to a study list for easy retrieval and practice.

Unit 1 Lesson 1F Item 5806

捣乱
dǎo luàn
to create a disturbance

In the "Learn Pronunciation" tab:
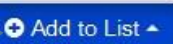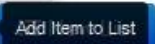
1. If necessary, create user study list (see pp. 17-18)

2. Click on "Add to List" button

3. Select destination list from pop-up selection.
The user-created list(s) will be among the options.

Create Customized Entries

1. Go to "Add/Edit Item" tab

2. Add FL and EN for new item.

2. Use native speaker for recordings. "Normal speed reference recording" is required; "Slow speed reference recording" is helpful but not required.
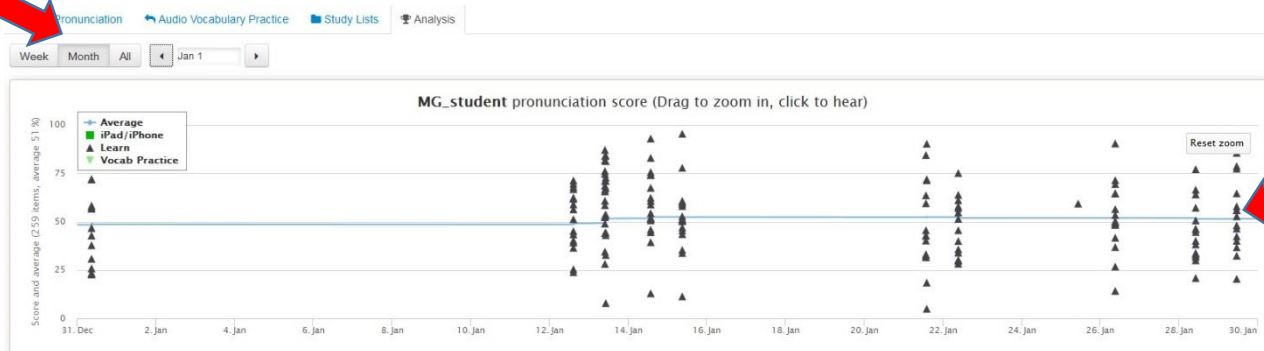
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Part 4:

Analysis

Functions

Review your performance in all your recordings, sortable by Week, Month, or All.

Each symbol represents one word/item. Clicking on the symbol will direct you to that item in the "Learn Pronunciation" tab.

Clicking on a word will direct you to that item in the "Learn Pronunciation" tab, where you can practice further and improve your score.

Click on the *Play* button to hear your recording. Click on the *Ref* button to hear the reference recording.

Clicking on the sound produces other examples of words that contain that sound. You can play your recording for that sound and also the reference recording.

You can also view your performance for a particular sound over time.

The "Sounds" window provides an analysis of individual sounds.

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Language Technology Evaluation and Application

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