

Skill-check HW #4 | OT basics (Hawai'ian loanwords)

For this assignment, your goal is to demonstrate your understanding of:

- how to approach the analysis of syllable structure using OT
- how to identify informative losing candidates
- how to make valid ranking arguments

The data set below shows words of Hawai'ian (a Polynesian language spoken in Hawai'i) that have been borrowed from English. Vowels that have been inserted by a process of **epenthesis** (insertion) are shown in **bold underline**.

Some notes:

- This is an excerpt from the data set that was used for SC HW #3.
- Several English consonants have been turned into different consonants in the Hawai'ian forms. You are not responsible for discussing or explaining this.
- Some words contain an epenthetic (inserted) vowel. You are not responsible for predicting which vowel is inserted.

<i>input</i>	<i>output</i>	<i>gloss</i>
/ pel /	[pe <u>e</u>]	'bell'
/ pluu /	[p <u>o</u> luu]	'blue'
/ klim /	[ka <u>li</u> ma]	'cream'
/ kolp /	[kole <u>pa</u>]	'golf'

(1) What is the phonological grammar of Hawai'ian? On the basis of this mini data set, **determine as many rankings as you can** among the following constraints.

NoDELETION ONSET NoONSETCLUSTER
NoEPENTHESIS NoCODA NoCODACLUSTER

- Support your rankings with valid ranking arguments presented in OT tableaux.
- Make your tableaux informative and efficient: Include only informative losers, and format the tableau to be consistent with the ranking(s) you are claiming.
- Be sure that your output candidates are shown with the information necessary to assess constraint violations.

(2) Summarize all your claimed rankings in a single **Hasse diagram**.