

Genesis of Greek

Notes

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PIE voiced aspirated stops become PG voiceless aspirated stops.

$$\begin{array}{c} G^{(w)h} \\ \left[\begin{array}{c} + \text{ cons} \\ - \text{ cont} \\ + \text{ s.g.} \\ + \text{ voi} \end{array} \right] \rightarrow \begin{array}{c} C^{(w)h} \\ [- \text{ voi}] \end{array} \end{array}$$

```
inventory <- c("dhugh2ter-", "srobeyoh2", "h2eġrom", "treyes",
               "h2ster-", "h2enh1mos", "septm")
inventory <- gsub("(d)(h|wh|hw)", "t\\2", inventory, perl = T)
inventory <- gsub("(b)(h|wh|hw)", "p\\2", inventory, perl = T)
inventory <- gsub("(g)(h|wh|hw)", "k\\2", inventory, perl = T)
```

PIE *s becomes PG *h at the beginning of a word or intervocalically

$$*s \rightarrow *h / \left\{ \begin{array}{c} \#_V \\ V_V \end{array} \right.$$

PIE intervocalic *y is elided.

```
inventory <- gsub("(a|e|i|o|u)y(a|e|i|o|u)", "\\1\\2", inventory, perl = T)
```

$$*y \rightarrow \emptyset / V_V$$

Word initial shenanigans concerning PIE *y that have no solid explanation

$$*j \left\{ \begin{array}{l} \rightarrow *h / \#_? \\ \rightarrow *zd / \#_? \end{array} \right.$$

PIE word final *m becomes PG *n

```
inventory <- gsub("m$", "n", inventory, perl = T)
```

$$\begin{array}{c} *m \\ \left[\begin{array}{c} + \text{ cons} \\ - \text{ son} \\ + \text{ lab} \\ - \text{ cor} \\ + \text{ nas} \end{array} \right] \rightarrow \begin{array}{c} *n \\ \left[\begin{array}{c} - \text{ lab} \\ + \text{ cor} \end{array} \right] / _ \# \end{array} \end{array}$$

PIE word-initial *h₁, *h₂, and *h₃ become PG *e, *a, and *o respectively.

```
inventory <- gsub("^h1", "e", inventory, perl = T)
inventory <- gsub("^h2", "a", inventory, perl = T)
inventory <- gsub("^h3", "o", inventory, perl = T)
```

$$*h_1 \rightarrow *e / \#_$$

$$*h_2 \rightarrow *a / \#_$$

$$*h_3 \rightarrow *o / \#_$$

PIE interconsonantal laryngeals show the same reflexes as the word-initial.

```
inventory <- gsub("(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)h1(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)",
  "\\1e\\2", inventory, perl = T)
inventory <- gsub("(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)h2(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)",
  "\\1a\\2", inventory, perl = T)
inventory <- gsub("(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)h3(t|th|d|s|p|ph|b|k|kh|g|h|m|n|l|r)",
  "\\1o\\2", inventory, perl = T)
```

$$*h_1 \rightarrow *e / C_C$$

$$*h_2 \rightarrow *a / C_C$$

$$*h_3 \rightarrow *o / C_C$$

PIE syllabic *m and *n may have become PG *a by this time.

```
inventory <- gsub('(\u0314|\u0315)', 'a', inventory, perl = T)
```

$$\begin{array}{c} *m \quad *n \\ \left[\begin{array}{c} + \text{ cons} \\ - \text{ son} \\ + \text{ syl} \\ \alpha \text{ lab} \\ \beta \text{ cor} \\ + \text{ nas} \end{array} \right] \rightarrow \left[\begin{array}{c} *a \\ - \text{ con} \\ - \text{ high} \\ + \text{ low} \\ - \text{ front} \\ - \text{ back} \\ - \text{ rnd} \end{array} \right]$$