

# Genesis of Greek

## Notes

Thomas Broadwater

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

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

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 \*h<sub>1</sub>, \*h<sub>2</sub>, and \*h<sub>3</sub> 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)
```

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