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All dissimilation is computationally subsequential:  
Supplemental Material

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## PHONOLOGICAL ANALYSIS

**All dissimilation is computationally subsequential:  
Online appendices**

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## APPENDIX: CATEGORIZATION AND FST REPRESENTATIONS OF LANGUAGE PATTERNS

This appendix lists the dissimilation patterns studied in the main article and categorizes them descriptively by type. For example, Yidiny is classified as a blocking dissimilation pattern because Dixon's analysis suggests that the Yidiny pattern is the composition of two basic dissimilations.

This appendix presents FST representations for each pattern. All states are final states, state 0 is always the initial state, and  $\varepsilon$  is the empty string. Most transitions are given in terms of the features Bennett (2013) and Suzuki (1998) used to describe each pattern, but occasionally specific segments are mentioned because they are particular morphemes. This is how Bennett and Suzuki typically describe the patterns, but I maintain it for readability only—the notation used is not meant to imply anything about the conceptual reality of particular features.

## A1: BASIC DISSIMILATIONS—LEFT-TO-RIGHT SUBSEQUENTIAL

**Language:** Arusa**Pattern:** High-tone dissimilation**Direction:** Left-to-right**Source:** Suzuki 1998:157**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+high]:[+high]),

(0, 0, [-high]:[-high]),

(1, 0, [-high]:[-high]),

(1, 0, [+high]:[-high])

Note: takes place on a tonal tier

**Language:** Atayal: Mayrinax**Pattern:** Labial dissimilation**Direction:** Left-to-right**Sources:** Bennett 2013:642, Zuraw & Lu 2009**FST:**States: (0,  $\varepsilon$ ), (1, [+labial])

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]: $\varepsilon$ ),

(1, 0, [-syllabic]:[+labial][-syllabic]),

(1, 0, [+syllabic]:[+labial][+syllabic]),

(1, 0, /=um=/ infix:[m])

**Language:** Bakairi**Pattern:** Voiceless dissimilation**Direction:** Left-to-right**Source:** Bennett 2013:642**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 1, [+voice]:[+voice]),

(1, 2, [-voice]:[-voice]),

(2, 2, [+voice]:[+voice]),

(2, 2, [-voice]:[+voice])

Note: takes place on a consonantal tier

**Language:** Bantu languages (Makonde, Kihehe, etc.)**Pattern:** High-tone dissimilation**Direction:** Left-to-right**Source:** Suzuki 1998:157**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+high]:[+high]),

(0, 0, [-high]:[-high]),

(1, 0, [-high]:[-high]),

(1, 0, [+high]:[-high])

Note: takes place on a tonal tier

**Language:** Bardi

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Basque: Zuberoan (Souletin)

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Berber: Imdlawn Tashlhiyt

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-high]:[-high]),

(0, 0, [-round]:[-round]),

(0, 1, [+high, +round]:[+high, +round]),

(1, 1, [-labial]:[-labial]),

(1, 1, [-sonorant]:[-sonorant]),

(1, 0, [+labial, +sonorant]:[+dorsal])

**Language:** Bilinara

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Cantonese

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:642, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

**Language:** Finnish

**Pattern:** Consonant-length dissimilation

**Direction:** Left-to-right

**Sources:** Suzuki 1998:157, Keyser & Kiparsky 1984

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 0, [+sonorant]:[+sonorant]),

(0, 1, [-voice, -sonorant]:[-voice, -sonorant]),

(1, 2, ..),

(2, 0, [-voice, -sonorant]: $\varepsilon$ )

Note: . represents a syllable boundary

**Language:** Gidabal

**Pattern:** Vowel-length dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a vowel tier

**Language:** Gooniyandi

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:643, Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [+nasal]: $\varepsilon$ ),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [-nasal]:[-nasal]),

(4, 0, [-nasal, +consonantal]:[-nasal, +consonantal])

**Language:** Gothic

**Pattern:** Voice dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-continuant]:[-continuant]),

(0, 1, [+continuant,  $\alpha$ voice]:[+continuant,  $\alpha$ voice]),

(1, 1, [-continuant]:[-continuant]),

(1, 1, [- $\alpha$ voice]:[- $\alpha$ voice]),

(1, 0, [+continuant,  $\alpha$ voice]:[+continuant, - $\alpha$ voice])

**Language:** Gurindji

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:643, Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Huave

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis, -coronal]: $\varepsilon$ )

**Language:** Hungarian

**Pattern:** Sibilant dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-sibilant]:[-sibilant]),

(0, 1, [+sibilant]:[+sibilant]),

(1, 1, not /s/:not /s/),

(1, 0, /s/:V/l/)

Note: only applies to 2nd singular suffix /s/

**Language:** Judeo-Spanish (Ladino)

**Pattern:** Dorsal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+dorsal, -voice])

Transitions: (0, 0, [-dorsal]:[-dorsal]),

(0, 1, [+dorsal]:[+dorsal]),

(1, 2, [+high, +front, +syllabic]:[+high, +front, +syllabic]),

(2, 3, [+dorsal, -voice]: $\varepsilon$ ),

(3, 0, [+syllabic]:[+coronal, -dorsal][+syllabic]),

(3, 0, [-syllabic]:[+dorsal, -voice][-syllabic])

Note: only applies to the suffix /-ikV/

**Language:** Kalkatungu

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Konni

**Pattern:** Liquid dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 1, [+liquid]:[+liquid]),

(1, 0, [+consonantal]:[+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+liquid]:[-liquid, -voice, +coronal]),

(2, 0, [-liquid]:[-liquid])

**Language:** Kwanyama

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [+nasal]: $\varepsilon$ ),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [-nasal]:[-nasal]),

(4, 0, [-nasal, +consonantal]:[-nasal, +consonantal])

**Language:** Manambu

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, 1)

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+rhotic]:[+rhotic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 3, [+rhotic]: $\varepsilon$ ),

(3, 0, [-rhotic]:[+rhotic][-rhotic]),

(3, 1, [+rhotic]:[+rhotic][+rhotic]),

(3, 2, [+syllabic]:[+rhotic][+syllabic])

**Language:** Mayali

**Pattern:** Labial and dorsal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:45

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 0, [-dorsal]:[-dorsal]),

(0, 1, [+nasal, +dorsal]:[+nasal, +dorsal]),

(1, 0, [-nasal]:[-nasal]),

(1, 0, [-dorsal]:[-dorsal]),

(1, 0, [+nasal, +dorsal]:[+coronal, -dorsal])

Note: takes place on a consonantal tier

**Language:** Meitei

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Mingrelian

**Pattern:** Continuancy dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1, [+voice, +delayed release, -continuant])

Transitions: (0, 0, [-voice]:[-voice]),

(0, 0, [+continuant]:[+continuant]),

(0, 1, [+voice, +delayed release, -continuant]: $\varepsilon$ ),

(1, 0, [-voice, +delayed release, -continuant]:[+voice, -delayed release, -continuant][-voice, +delayed release, -continuant]),

(1, 0, [+voice]:[+voice, +delayed release, -continuant][+voice]),

(1, 0, [-continuant]:[+voice, +delayed release, -continuant][-continuant])

Note: takes place on a consonantal tier

**Language:** Mingrelian

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(1, 0, [+rhotic]:[-rhotic])

Note: takes place on a consonantal tier

**Language:** Modern Greek

**Pattern:** Continuancy dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-continuant]:[-continuant]),

(0, 1, [+continuant]:[+continuant]),

(1, 0, [-continuant]:[-continuant]),

(1, 0, [+continuant]:[-continuant])

**Language:** Mudbura

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Nhanda

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [+nasal]: $\varepsilon$ ),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [-nasal]:[-nasal]),

(4, 0, [-nasal, +consonantal]:[-nasal, +consonantal])

**Language:** Ni'ihau Hawai'ian

**Pattern:** Coronal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-dorsal]:[-dorsal]),

(0, 0, [+voice]:[+voice]),

(0, 1, [-voice, +dorsal, -continuant]:[-voice, +dorsal, -continuant]),

(1, 0, [+consonantal]:[+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice, +dorsal, -continuant]:[-dorsal, +coronal]),

(2, 0, [+voice]:[+voice]),

(2, 0, [-dorsal]:[-dorsal])

**Language:** Oromo

**Pattern:** Vowel-length dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a vowel tier

**Language:** Paiwan: Ljaljawran

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, /= $\text{əm}$ / infix: /= $\text{ən}$ /),

(1, 1, [-syllabic]:[-syllabic]),

(1, 1, [+syllabic]:[+syllabic])

**Language:** Paiwan: Tjuabar

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, /=ə̃m/ infix: /=ə̃n/),

(1, 1, [-syllabic]:[-syllabic]),

(1, 1, [+syllabic]:[+syllabic])

**Language:** Paiwan: other (various)

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, /=ə̃m/ infix: /=ə̃n/),

(1, 1, [-syllabic]:[-syllabic]),

(1, 1, [+syllabic]:[+syllabic])

**Language:** Peñoles Mixtec

**Pattern:** Low-tone dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+low]:[+low]),

(0, 0, [-low]:[-low]),

(1, 0, [+low]:[-low, -high]),

(1, 0, [-low]:[-low])

Note: takes place on a tonal tier

**Language:** Persian: Sabzevari

**Pattern:** Lateral dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-lateral]:[-lateral]),

(0, 1, [+lateral, +liquid]:[+lateral, +liquid]),

(1, 0, [+consonantal]:[+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+lateral, +liquid]:[-lateral, +rhotic]),

(2, 0, [-lateral]:[-lateral])

**Language:** Seri

**Pattern:** Glottal-stop dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-glottal]:[-glottal]),

(0, 0, [+continuant]:[+continuant]),

(0, 1, [+glottal, -continuant]:[+glottal, -continuant]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+glottal, -continuant]:[+glottal, -continuant]),

(1, 0, [-glottal]:[-glottal]),

(1, 0, [+continuant]:[+continuant])

(2, 0, [-glottal]:[-glottal]),

(2, 0, [+continuant]:[+continuant]),

(2, 0, [+glottal, -continuant]: $\varepsilon$ )

**Language:** Slovak

**Pattern:** Vowel-length dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a vowel tier

**Language:** Spanish (Colombian)

**Pattern:** Coronal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [+voice]:[+voice]),

(0, 0, [+continuant]:[+continuant]),

(0, 1, [+coronal, -voice, -continuant]:[+coronal, -voice, -continuant]),

(1, 0, not the suffix *-ito*:not the suffix *-ito*),

(1, 0, *-ito*:*-iko*)

Note: only applies to the suffix *-ito*

**Language:** Svan

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 0, [+rhotic]:[-rhotic, +lateral])

**Language:** Takelma

**Pattern:** Coronal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal]:[+coronal]),

(1, 0, [+coronal, +nasal]:[-coronal, +labial]),

(1, 1, [-coronal]:[-coronal]),

(1, 1, [-nasal]:[-nasal])

**Language:** Turkish

**Pattern:** Sibilant dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-sibilant]:[-sibilant]),

(0, 1, [+sibilant]:[+sibilant]),

(1, 1, [-sibilant]:[-sibilant]),

(1, 0, [+sibilant]:[-sibilant])

**Language:** Yimas

**Pattern:** Liquid dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:649, Suzuki 1998:154

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 1, [+liquid]:[+liquid]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+liquid]:[+liquid]),

(1, 0, [-liquid]:[-liquid]),

(2, 0, [-liquid]:[-liquid]),

(2, 0, [+liquid]:[-liquid, +coronal, -voice])

**Language:** Yindjibarndi

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [+nasal]: $\varepsilon$ ),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [-nasal]:[-nasal]),

(4, 0, [-nasal, +consonantal]:[-nasal, +consonantal])

**Language:** Yindjibarndi

**Pattern:** Rhotic-type dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:649, Suzuki 1998:154

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [ $\alpha$ anterior, +rhotic]:[ $\alpha$ anterior, +rhotic]),

(1, 1, [ $\alpha$ anterior, +rhotic]:[ $\alpha$ anterior, +rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 0, [ $\alpha$ anterior, +rhotic]:[- $\alpha$ anterior])



## A2: BASIC DISSIMILATIONS—RIGHT-TO-LEFT SUBSEQUENTIAL

Recall that here the input string should be reversed before applying the FST (and then the output reversed).

**Language:** Acehnese

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:641

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(2, 0, [-labial]:[-labial]),

(2, 0, [+labial]:[+coronal, -labial, -voice,  
+continuant])

**Language:** Ainu

**Pattern:** Rhotic dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 1, [+liquid]:[+liquid]),

(1, 1, [-liquid]:[-liquid]),

(1, 0, [+liquid]:[+coronal, +nasal, -liquid])

**Language:** Akan

**Pattern:** Coronal dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:641, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal]:[+coronal]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+coronal]:[+coronal]),

(1, 0, [-coronal]:[-coronal]),

(2, 0, [-coronal]:[-coronal]),

(2, 0, [+coronal, +delayed release, -voice]:[-coronal,  
+dorsal, -delayed release])

**Language:** Akkadian

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:641, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(1, 0, [+labial, +nasal]:[-labial, +coronal])

**Language:** Arabic: Maltese

**Pattern:** Pharyngealization dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:641

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-pharyngeal]:[-pharyngeal]),

(0, 1, [+pharyngeal]:[+pharyngeal]),

(1, 0, [+pharyngeal]:[-pharyngeal]),

(1, 1, [-pharyngeal]:[-pharyngeal])

**Language:** Arabic: Palestinian

**Pattern:** Pharyngealization dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:642, Davis 1970

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-pharyngeal]:[-pharyngeal]),

(0, 1, [+pharyngeal]:[+pharyngeal]),

(1, 0, [+pharyngeal]:[-pharyngeal]),

(1, 1, [-pharyngeal]:[-pharyngeal])

**Language:** Arusa

**Pattern:** Vowel-height dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-low]:[-low]),

(0, 1, [+low]:[+low]),

(1, 0, [-high, -low]:[+high]),

(1, 0, [+high]:[+high]),

(1, 0, [+low]:[+low])

Note: takes place on a vowel tier

**Language:** Bemba  
**Pattern:** NC dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4,  $\varepsilon$ )  
 Transitions: (0, 0, [+nasal]:[+nasal]),  
 (0, 1, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (1, 2, [+nasal, +consonantal]:[+nasal, +consonantal]),  
 (2, 3, [+syllabic]:[+syllabic]),  
 (3, 4, [-nasal, +consonantal]: $\varepsilon$ ),  
 (1, 1, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (2, 0, [+consonantal]:[+consonantal]),  
 (3, 0, [+nasal]:[+nasal]),  
 (4, 0, [+nasal, +consonantal]:[+nasal,  
 +consonantal][+nasal, +consonantal])

**Language:** Bena  
**Pattern:** Voiceless dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )  
 Transitions: (0, 0, [+voice]:[+voice]),  
 (0, 1, [-voice]:[-voice]),  
 (1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (2, 3, [+syllabic]:[+syllabic]),  
 (1, 1, [-voice]:[-voice]),  
 (2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (3, 0, [-dorsal]:[-dorsal]),  
 (3, 0, [+voice]:[+voice]),  
 (3, 0, [+dorsal, -voice, -continuant]:[+voice,  
 +continuant])

**Language:** Berber: Ayt Ndhir Tamazight  
**Pattern:** Labial dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 0, [-labial]:[-labial]),  
 (1, 0, [+labial, +nasal]:[-labial, +coronal])

**Language:** Berber: Imdlawn Tashlhiyt  
**Pattern:** Labial dissimilation  
**Direction:** Right-to-left  
**Sources:** Bennett 2013:642, Suzuki 1998:153  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 0, [-labial]:[-labial]),  
 (1, 0, [+labial, +nasal]:[-labial, +coronal])

**Language:** Berber: Tadaksahak  
**Pattern:** Labial dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 0, [-labial]:[-labial]),  
 (1, 0, [+labial, +nasal]:[-labial, +coronal])

**Language:** Berber: Tamashek Tuareg  
**Pattern:** Labial dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 0, [-labial]:[-labial]),  
 (1, 0, [+labial, +nasal]:[-labial, +coronal])

**Language:** Chaha  
**Pattern:** Continuancy dissimilation  
**Direction:** Right-to-left  
**Source:** Bennett 2013:642  
**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-continuant]:[-continuant]),  
 (0, 1, [+continuant]:[+continuant]),  
 (1, 1, [-continuant]:[-continuant]),  
 (1, 1, [+voice]:[+voice]),  
 (1, 1, [-dorsal]:[-dorsal]),  
 (1, 0, [+dorsal, +continuant, -voice]:[-continuant])

**Language:** Chukchi

**Pattern:** Nasal dissimilation

**Direction:** Right-to-left

**Sources:** Suzuki 1998:155, Krause 1979

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 0, [-nasal]:[-nasal]),

(1, 0, [+nasal]:[-nasal])

**Language:** Dakota

**Pattern:** Coronal dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal]:[+coronal]),

(1, 0, [+coronal]:[-coronal, +dorsal]),

(1, 1, [-coronal]:[-coronal])

**Language:** EkeGusii

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice, +continuant])

**Language:** Ekoti

**Pattern:** Spread-glottis dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Embu

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice, +continuant])

**Language:** Endo

**Pattern:** Liquid-type dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:643, Larsen 1991

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 0, [-lateral]:[-lateral]),

(0, 1, [+liquid, +lateral]:[+liquid, +lateral]),

(1, 0, [+liquid, +lateral]:[-lateral, +rhotic]),

(1, 0, [-lateral]:[-lateral]),

(1, 0, [-liquid]:[-liquid])

**Language:** Ganda

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 1, [+nasal, +consonantal]:[+nasal, +consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 3, [-nasal, +consonantal]: $\varepsilon$ ),

(1, 0, [+consonantal]:[+consonantal]),

(2, 0, [+nasal]:[+nasal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal] [+nasal, +consonantal])

**Language:** Gogo**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:643**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Guere**Pattern:** Vowel-height dissimilation**Direction:** Right-to-left**Source:** Suzuki 1998:156**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [+high]:[+high]),

(0, 1, [-high]:[-high]),

(1, 1, [+high]:[+high]),

(1, 0, [-high]:[+high])

Note: takes place on a vowel tier

**Language:** Ha**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:643**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Havu**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:643**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Haya**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:643**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Iban**Pattern:** Continuancy dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:644**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-continuant]:[-continuant]),

(0, 1, [+continuant]:[+continuant]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+continuant]:[+continuant]),

(1, 0, [-continuant]:[-continuant]),

(2, 0, [-continuant]:[-continuant]),

(2, 0, [+continuant]:[-continuant])

**Language:** Japanese**Pattern:** Length dissimilation**Direction:** Right-to-left**Source:** Suzuki 1998:157**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a consonantal tier

**Language:** Jewish Koy Sanjaq**Pattern:** Pharyngealization dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:644**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-pharyngeal]:[-pharyngeal]),

(0, 1, [+pharyngeal]:[+pharyngeal]),

(1, 0, [-pharyngeal]:[-pharyngeal]),

(1, 0, [+pharyngeal]:[-pharyngeal])

Note: takes place on a consonantal tier

**Language:** Kera

**Pattern:** Vowel-height dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-low]:[-low]),

(0, 0, [+ATR]:[+ATR]),

(0, 1, [+low, -ATR]:[+low, -ATR]),

(1, 0, [+low, -ATR]:[+ATR]),

(1, 0, [-low]:[-low]),

(1, 0, [+ATR]:[+ATR])

Note: takes place on vowel tier

**Language:** Kɪɾya

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice, +continuant])

**Language:** Kikuria

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice, +continuant])

**Language:** Kikuyu

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-nasal, +consonantal])

Transitions: (0, 1, [-nasal, +consonantal]:[-nasal, +consonantal]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-nasal, +consonantal]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-nasal]),

(1, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal])

**Language:** Kikuyu

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:644, Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice, +continuant])

**Language:** Kinyarwanda

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Kiput

**Pattern:** Continuancy dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+continuant]:[+continuant]),

(1, 0, [-continuant]:[-continuant]),

(1, 0, [+continuant]:[-continuant, -voice, +coronal])

**Language:** Kirundi

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Kuman

**Pattern:** Lateral dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:645, Suzuki 1998:154

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-lateral]:[-lateral]),

(0, 1, [+lateral, -voice]:[+lateral, -voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+lateral, -voice]:[-lateral, +rhotic, +voice]),

(2, 0, [-lateral]:[-lateral])

**Language:** Lamba

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-nasal, +consonantal])

Transitions: (0, 1, [-nasal, +consonantal]:[-nasal, +consonantal]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-nasal, +consonantal]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-nasal]),

(1, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal])

**Language:** Latin (Lex Mamilla)

**Pattern:** Length dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a consonantal tier

**Language:** Limos Kalinga

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, /=um=/ infix:/=um=/ infix),

(1, 0, [+labial]:[-labial, +dorsal]),

(1, 0, [-labial]:[-labial])

Note: only applies to the infix /=um=/

**Language:** Linngithigh

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal]), (4, [+nasal][+syllabic])

Transitions: (0, 0, [-syllabic]:[-syllabic]),

(0, 1, [+syllabic]:[+syllabic]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 4, [+syllabic]: $\varepsilon$ ),

(4, 0, [+nasal]:[+syllabic][+nasal]),

(4, 0, [-nasal]:[+nasal][+syllabic][-nasal]),

(3, 0, [+consonantal]:[+nasal][+consonantal]),

(2, 0, [-nasal]:[-nasal])

**Language:** Lugulu

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Lumasaaba

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 1, [+nasal, +consonantal]:[+nasal,  
+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 3, [-nasal, +consonantal]: $\varepsilon$ ),

(1, 0, [+consonantal]:[+consonantal]),

(2, 0, [+nasal]:[+nasal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal])

**Language:** Luyia

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice])

**Language:** Marshallese

**Pattern:** Vowel-height dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-low]:[-low]),

(0, 1, [+low]:[+low]),

(1, 0, [+low]:[-low, +ATR]),

(1, 0, [-low]:[-low])

Note: takes place on a vowel tier

**Language:** Meru (Chuka)

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice])

**Language:** Meru (Imenti)

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice])

**Language:** Minor Mlabri

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic, +low]:[+syllabic, +low]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-low]:[-low]),

(3, 0, [-anterior]:[-anterior]),

(3, 0, [+coronal]:[+coronal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+continuant]:[+continuant]),

(3, 0, [+anterior, -coronal, -voice,  
-continuant]:[+voice])

**Language:** Modern Greek

**Pattern:** Rhotic dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:154

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 1, [-rhotic]:[-rhotic]),

(1, 0, [+rhotic]:[-rhotic, +lateral])

Note: takes place on a liquid tier

**Language:** Mori Bawah

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-voice,  
+consonantal])

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice, +consonantal]:[-voice, +consonantal]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-voice, +consonantal]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-voice, +consonantal][-nasal]),

(3, 0, [+voice]:[+voice])

**Language:** Moro

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Muna

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=um=/ infix: not /=um=/ infix),

(0, 1, /=um=/ infix: /=um=/ infix),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]: $\varepsilon$ )

Note: only applies to the infix /=um=/

**Language:** Murut: Timugon

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=um=/ infix: not /=um=/ infix),

(0, 1, /=um=/ infix: /=um=/ infix),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]: $\varepsilon$ )

Note: only applies to the infix /=um=/

**Language:** Murut: Timugon

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [-nasal, +consonantal])

Transitions: (0, 0, [+nasal]:[+nasal]),

(0, 1, [-nasal]:[-nasal]),

(1, 2, [+nasal]:[+nasal]),

(2, 2, [+nasal]:[+nasal]),

(2, 3, [-nasal, +consonantal]: $\varepsilon$ ),

(3, 2, [+nasal]:[+nasal]),

(3, 3, [-nasal, +consonantal]:[-nasal][+consonantal])



**Language:** Mwimbi

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 1, [-voice]:[-voice]),

(1, 2, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(1, 1, [-voice]:[-voice]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-dorsal]:[-dorsal]),

(3, 0, [+voice]:[+voice]),

(3, 0, [+dorsal, -voice, -continuant]:[+voice])

**Language:** Ndebele

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 0, [-sonorant]:[-sonorant]),

(0, 1, [+labial, +sonorant]:[+labial, +sonorant]),

(1, 0, [+labial]:[-labial, +palatal]),

(1, 0, [-labial]:[-labial])

**Language:** Ngaju Dayak

**Pattern:** Continuancy dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-continuant]:[-continuant]),

(0, 0, [+voice]:[+voice]),

(0, 0, [-coronal]:[-coronal]),

(0, 1, [+continuant, -voice, +coronal,

+anterior]:[+continuant, -voice, +coronal,

+anterior]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+continuant, -voice, +coronal,

+anterior]:[-continuant]),

(2, 0, [-continuant]:[-continuant]),

(2, 0, [+voice]:[+voice]),

(2, 0, [-coronal]:[-coronal])

**Language:** Ngaju Dayak

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-nasal,

+consonantal])

Transitions: (0, 1, [-nasal, +consonantal]:[-nasal,

+consonantal]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-nasal, +consonantal]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-nasal]),

(1, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(2, 0, [+consonantal]:[+consonantal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal])

**Language:** Ni'ihau Hawai'ian

**Pattern:** Coronal dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [+continuant]:[+continuant]),

(0, 0, [+voice]:[+voice]),

(0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal, +anterior, -continuant,

-voice]:[+coronal, +anterior, -continuant, -voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+coronal, +anterior, -continuant,

-voice]:[+dorsal, -anterior, -coronal]),

(2, 0, [+continuant]:[+continuant]),

(2, 0, [+voice]:[+voice]),

(2, 0, [-coronal]:[-coronal])

**Language:** Northern Greek

**Pattern:** Continuancy dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-continuant]:[-continuant]),

(0, 0, [+voice]:[+voice]),

(0, 0, [-coronal]:[-coronal]),

(0, 1, [+continuant, -voice, +anterior,

+coronal]:[+continuant, -voice, +anterior,  
+coronal]),

(1, 0, [-continuant]:[-continuant]),

(1, 0, [+voice]:[+voice]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+continuant, -voice, +anterior, +coronal]: $\varepsilon$ )

**Language:** Nyamwezi

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [-voice]:[-voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice]:[+voice]),

(2, 0, [+voice]:[+voice])

**Language:** Ofo

**Pattern:** Spread-glottis dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Palauan

**Pattern:** Continuancy dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, /=m=/ infix: /=w=/),

(1, 0, not /=m=/ infix: not /=m=/ infix)

Note: only applies to the infix /=m=/

**Language:** Palauan

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:647, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, /=m=/ infix:[+syllabic, -consonantal, +back,  
+round]),

(1, 0, not /=m=/ infix: not /=m=/ infix)

Note: only applies to the infix /=m=/

**Language:** Phuthi

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-sonorant]:[-sonorant]),

(0, 0, [-labial]:[-labial]),

(0, 1, [+sonorant, +labial]:[+sonorant, +labial]),

(1, 0, [+labial]:[-labial, +palatal]),

(1, 0, [-labial]:[-labial])

**Language:** Salish: Moses-Columbia

**Pattern:** Constricted-glottis dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:647, Suzuki 1998:153, Bessell  
& Czaykowska-Higgins 1993

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted  
glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Salish: Okanagan

**Pattern:** Constricted-glottis dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Salish: Shuswap

**Pattern:** Constricted-glottis dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Salish: Tillamook

**Pattern:** Constricted-glottis dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Sanskrit

**Pattern:** Spread-glottis dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Sarangani Balaan

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=am=/ infix: not /=am=/ infix),

(0, 1, /=am=/ infix: /=am=/ infix),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]: $\varepsilon$ )

Note: only applies to the infix /=am=/

**Language:** Sarangani Manobo

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=om=/ infix: not /=om=/ infix),

(0, 1, /=om=/ infix: /=om=/ infix),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]: $\varepsilon$ )

Note: only applies to the infix /=om=/

**Language:** Seri

**Pattern:** Constricted-glottis dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:155

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]: $\varepsilon$ )

**Language:** Shambala

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 1, [+voice]:[+voice]),

(1, 0, [+voice]:[+voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+voice]:[-voice]),

(2, 0, [-voice]:[-voice])

**Language:** Shi**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:648**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 1, [+voice]:[+voice]),

(1, 0, [+voice]:[+voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+voice]:[-voice]),

(2, 0, [-voice]:[-voice])

**Language:** Sundanese**Pattern:** Liquid dissimilation**Direction:** Right-to-left**Sources:** Bennett 2013:648, Suzuki 1998:154**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+rhotic]:[-rhotic, +lateral]),

(2, 0, [-rhotic]:[-rhotic])

**Language:** Swati**Pattern:** Labial dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:648**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-sonorant]:[-sonorant]),

(0, 0, [-labial]:[-labial]),

(0, 1, [+sonorant, +labial]:[+sonorant, +labial]),

(1, 0, [+labial]:[-labial, +palatal]),

(1, 0, [-labial]:[-labial])

**Language:** Tahitian**Pattern:** Coronal dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:648**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [+voice]:[+voice]),

(0, 0, [+continuant]:[+continuant]),

(0, 0, [-coronal]:[-coronal]),

(0, 1, [-voice, -continuant, +coronal,  
+anterior]:[-voice, -continuant, +coronal,  
+anterior]),

(1, 0, [+consonantal]:[+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [-voice, -continuant, +coronal,  
+anterior]:[-anterior, -coronal, +dorsal]),

(2, 0, [+voice]:[+voice]),

(2, 0, [+continuant]:[+continuant]),

(2, 0, [-coronal]:[-coronal])

**Language:** Tahitian**Pattern:** Labial dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:648**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [+labial, +continuant, -voice]:[-labial, +dorsal,  
-anterior]),

(1, 1, [-labial]:[-labial])

**Language:** Tharaka**Pattern:** Voiceless dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:648**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 1, [+voice]:[+voice]),

(1, 0, [+voice]:[+voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+voice]:[-voice]),

(2, 0, [-voice]:[-voice])

**Language:** Tzutujil**Pattern:** Backness dissimilation**Direction:** Right-to-left**Source:** Bennett 2013:649**FST:**States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-velar]:[-velar]),

(0, 1, [+velar]:[+velar]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 0, [-syllabic]:[-syllabic]),

(2, 0, [+velar]:[+velar, +palatalized]),

(2, 0, [-velar]:[-velar])

**Language:** Umbundu

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-nasal, +consonantal]),

Transitions: (0, 1, [+syllabic]:[+syllabic]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-nasal, +consonantal]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-nasal, +consonantal][-nasal]),

(1, 0, [+consonantal]:[+consonantal]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [+nasal, +consonantal]:[+nasal, +consonantal])

**Language:** Western Bade

**Pattern:** Voicing dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ )

Transitions: (0, 1, [+syllabic]:[+syllabic]),

(1, 2, [+voice, +consonantal]:[+voice, +consonantal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 0, [+voice, +consonantal]:[-voice, +consonantal]),

(3, 0, [-voice]:[-voice]),

(1, 0, [+consonantal]:[+consonantal]),

(2, 0, [-voice]:[-voice])

**Language:** Woleaian

**Pattern:** Vowel dissimilation

**Direction:** Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-low]:[-low]),

(0, 1, [+low]:[+low]),

(1, 0, [+low]:[-low, +ATR]),

(1, 0, [-low]:[-low])

Note: takes place on a vowel tier

**Language:** Xhosa

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 0, [-sonorant]:[-sonorant]),

(0, 1, [+labial, +sonorant]:[+labial, +sonorant]),

(1, 0, [+labial]:[-labial, +palatal]),

(1, 0, [-labial]:[-labial])

**Language:** Yao

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Sources:** Bennett 2013:649, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3,  $\varepsilon$ ), (4, [-continuant, +voice, +coronal, +anterior])

Transitions: (0, 1, [-nasal, +consonantal]),

(1, 2, [+nasal]:[+nasal]),

(2, 3, [+syllabic]:[+syllabic]),

(3, 4, [-continuant, +voice, +coronal, +anterior]: $\varepsilon$ ),

(4, 0, [+nasal]:[+nasal]),

(4, 0, [-nasal]:[-continuant, +voice, +coronal, +anterior][-nasal]),

(1, 0, [+syllabic]:[+syllabic]),

(2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),

(3, 0, [-continuant]:[-continuant]),

(3, 0, [-voice]:[-voice]),

(3, 0, [-coronal]:[-coronal]),

(3, 0, [-anterior]:[-anterior])

**Language:** Zalamo

**Pattern:** Voiceless dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 1, [+voice]:[+voice]),

(1, 0, [+voice]:[+voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+voice]:[-voice]),

(2, 0, [-voice]:[-voice])

**Language:** Zulu  
**Pattern:** Labial dissimilation  
**Direction:** Right-to-left  
**Sources:** Bennett 2013:649, Suzuki 1998:153,  
 Beckman 1993  
**FST:**  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 0, [-sonorant]:[-sonorant]),  
 (0, 1, [+labial, +sonorant]:[+labial, +sonorant]),  
 (1, 0, [+labial]:[-labial, +palatal]),  
 (1, 0, [-labial]:[-labial])

#### A3: BLOCKING DISSIMILATIONS—LEFT-TO-RIGHT SUBSEQUENTIAL

**Language:** Georgian  
**Pattern:** Liquid dissimilation  
**Direction:** Left-to-right  
**Sources:** Bennett 2013:643, Suzuki 1998:154  
**FST:**  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [+lateral]:[+lateral]),  
 (0, 0, [+syllabic]:[+syllabic]),  
 (0, 0, [-liquid]:[-liquid]),  
 (0, 1, [+rhotic]:[+rhotic]),  
 (1, 0, [+lateral]:[+lateral]),  
 (1, 0, [+rhotic]:[-rhotic, +lateral]),  
 (1, 1, [+syllabic]:[+syllabic]),  
 (1, 1, [-liquid]:[-liquid])

(1, 0, [+rhotic]:[+rhotic]),  
 (1, 0, [+lateral]:[-lateral, +rhotic]),  
 (1, 1, [+syllabic]:[+syllabic]),  
 (1, 1, [-liquid]:[-liquid])

**Language:** Latin  
**Pattern:** Liquid dissimilation (/r/ as a blocker)  
**Direction:** Left-to-right  
**Sources:** Bennett 2013:645, Suzuki 1998:154  
**FST:**  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [+rhotic]:[+rhotic]),  
 (0, 0, [+syllabic]:[+syllabic]),  
 (0, 0, [-liquid]:[-liquid]),  
 (0, 1, [+lateral]:[+lateral]),

**Language:** Latin  
**Pattern:** Liquid dissimilation (full /l/ dissimilatory pattern)  
**Direction:** Left-to-right  
**Sources:** Bennett 2013:645, Suzuki 1998:154, Cser 2010  
**FST:**  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [+rhotic]:[+rhotic]),  
 (0, 0, [+syllabic]:[+syllabic]),  
 (0, 0, [-liquid]:[-liquid]),  
 (0, 1, [+lateral]:[+lateral]),  
 (1, 0, [+rhotic]:[+rhotic]),  
 (1, 0, [-coronal, +consonantal]:[-coronal, +consonantal]),  
 (1, 0, [+lateral]:[-lateral, +rhotic]),  
 (1, 1, [+syllabic]:[+syllabic]),  
 (1, 1, [-liquid, +coronal]:[-liquid, +coronal])

#### A4: BLOCKING DISSIMILATIONS—RIGHT-TO-LEFT SUBSEQUENTIAL

Though this pattern looks like rightward blocking, these are actually two separate basic dissimilations. The first is right-to-left subsequential, the second, left-to-right.

**Language:** Yidiny  
**Pattern:** Liquid dissimilation  
**Direction:** Right-to-left  
**Sources:** Bennett 2013:649, Suzuki 1998:154, Dixon 1977  
**FST:**  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-lateral]:[-lateral]),  
 (0, 1, [+lateral]:[+lateral]),  
 (1, 0, [-lateral]:[-lateral]),  
 (1, 0, [+lateral]:[-lateral, +rhotic])  
 Note: the first /l/ to /r/ dissimilation (reverse the input string)

**Language:** Yidiny

**Pattern:** Liquid dissimilation

**Direction:** Left-to-right

**Sources:** Bennett 2013:649, Suzuki 1998:154, Dixon 1977

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [–rhotic]:[–rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [–rhotic]:[–rhotic]),

(1, 0, [+rhotic]:[–rhotic, +lateral])

Note: the second /r/ to /l/ dissimilation

#### A5: POLARITY DISSIMILATIONS—LEFT-TO-RIGHT SUBSEQUENTIAL

**Language:** Chontal

**Pattern:** Voicing dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:158

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [+voice]:[+voice]),

(0, 2, [–voice]:[–voice]),

(2, 0, /-laʔ/:-laʔ/),

(1, 0, /-laʔ/:-laʔ/),

(1, 1, [+voice]:[+voice]),

(2, 2, [–voice]:[–voice]),

(2, 1, [+voice]:[+voice]),

(1, 2, [–voice]:[–voice])

Note: only applies to the suffix /-laʔ/

**Language:** Dinka

**Pattern:** Vowel-length dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:158

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [–long]:[–long]),

(0, 1, [+long]:[+long]),

(0, 2, [–long]:[–long]),

(2, 0, [–long]:[+long]),

(1, 0, [+long]:[–long]),

(1, 1, [+long]:[+long]),

(2, 2, [–long]:[–long])

Note: takes place on a vowel tier

**Language:** Margi

**Pattern:** Tone dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 1, [+high]:[+high]),

(0, 2, [+low]:[+low]),

(1, 2, [+low]:[+low]),

(2, 1, [+high]:[+high]),

(2, 0, [–high, –low]:[+high]),

(1, 0, [–high, –low]:[+low])

Note: takes place on a tonal tier

**Language:** Russian

**Pattern:** Vowel-height dissimilation

**Direction:** Left-to-right

**Source:** Suzuki 1998:158

**FST:**

States: (0,  $\varepsilon$ ), (1, [–high, –low])

Transitions: (0, 0, [+high]:[+high]),

(0, 1, [–high, –low]: $\varepsilon$ ),

(1, 1, [–high, –low]:[–high, –low]),

(1, 0, [+low]:[+high][+low]),

(1, 0, [+high]:[+low][+high])

Note: takes place on a vowel tier

## A6: COOCCURRENCE RESTRICTIONS

These cooccurrence restrictions are not explicit maps, but the maps chosen here are consistent with surface representations. In languages with many such maps (e.g. Arabic), one potential map is given. Each of these patterns can be described with either a left-to-right or right-to-left subsequential transducer; both are provided here if they are not identical.

**Language:** Ainu

**Pattern:** Vowel-backness dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-back]:[-back]),

(0, 0, [-high]:[-high]),

(0, 1, [+back, +high]:[+back, +high]),

(1, 0, [-back]:[-back]),

(1, 0, [-high]:[-high]),

(1, 0, [+back, +high]:[-back, +high])

Note: takes place on a vowel tier

**Language:** Akkadian

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:641

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]: $\varepsilon$ )

**Language:** Arabic

**Pattern:** Place dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Suzuki 1998:152, Frisch et al. 2004, Yip 1989

**FSTs:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [-continuant]:[-continuant]),

(0, 1, [+coronal, +continuant]:[+coronal, +continuant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, +continuant]:[-continuant])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [+continuant]:[+continuant]),

(0, 1, [+coronal, -continuant]:[+coronal, -continuant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, -continuant]:[+continuant])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [-sonorant]:[-sonorant]),

(0, 1, [+coronal, +sonorant]:[+coronal, +sonorant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, +sonorant]:[-sonorant])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-dorsal]:[-dorsal]),

(0, 1, [+dorsal]:[+dorsal]),

(1, 0, [-dorsal]:[-dorsal]),

(1, 0, [+dorsal]:[-dorsal])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-pharyngeal]:[-pharyngeal]),

(0, 1, [+pharyngeal]:[+pharyngeal]),

(1, 0, [-pharyngeal]:[-pharyngeal]),

(1, 0, [+pharyngeal]:[-pharyngeal])

Note: This is a ‘place’ dissimilation, which can be thought of as a combination of several FSTs restricting combinations for each place.

**Language:** Aymara: Bolivian

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])



**Language:** Aymara: Peruvian

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Aymara: Peruvian

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:642

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Berber: Imdlawn Tashlhiyt

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Bennett 2013:642, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

**Language:** Cambodian

**Pattern:** Place dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Suzuki 1998:152, Yip 1989

**FSTs:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal]:[+coronal]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal]:[-coronal])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-dorsal]:[-dorsal]),

(0, 1, [+dorsal]:[+dorsal]),

(1, 0, [-dorsal]:[-dorsal]),

(1, 0, [+dorsal]:[-dorsal])

Note: This is a ‘place’ dissimilation, which can be thought of as a combination of several FSTs restricting combinations for each place.

**Language:** Cantonese

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Bennett 2013:642, Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

**Language:** Chol

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Georgian (old)

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Gojri

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Harauti

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:643

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Hausa

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis, + $\alpha$ place]:[+constricted glottis, + $\alpha$ place]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis, - $\alpha$ place]:[-constricted glottis, - $\alpha$ place]),

(1, 1, [+constricted glottis, + $\alpha$ place]:[+constricted glottis, + $\alpha$ place])

**Language:** Jah Hut

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(1, 0, [+rhotic]:[-rhotic])

Note: takes place on a consonantal tier

**Language:** Jahai

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(1, 0, [+rhotic]:[-rhotic])

Note: takes place on a consonantal tier

**Language:** Japanese

**Pattern:** Length dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:157

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-long]:[-long]),

(0, 1, [+long]:[+long]),

(1, 0, [-long]:[-long]),

(1, 0, [+long]:[-long])

Note: takes place on a consonantal tier

**Language:** Japanese

**Pattern:** Voicing dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Suzuki 1998:155, Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 1, [+voice]:[+voice]),

(1, 0, [-voice]:[-voice]),

(1, 0, [+voice]:[-voice]),

(0, 0, [-voice]:[-voice])

**Language:** Japanese (old)

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Japanese (old)

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [-nasal, +consonantal])

Transitions: (0, 0, [+nasal]:[+nasal]),

(0, 1, [-nasal]:[-nasal]),

(1, 2, [+nasal]:[+nasal]),

(2, 2, [+nasal]:[+nasal]),

(2, 3, [-nasal, +consonantal]: $\varepsilon$ ),

(3, 2, [+nasal]:[+nasal]),

(3, 3, [-nasal, +consonantal]:[-nasal][+consonantal])

**Language:** Javanese

**Pattern:** Liquid dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:154

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 1, [+liquid]:[+liquid]),

(1, 0, [-liquid]:[-liquid]),

(1, 0, [+liquid]:[-liquid])

**Language:** Javanese

**Pattern:** Place dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Suzuki 1998:152, Padgett 1991

**FSTs:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 1, [+coronal]:[+coronal]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal]:[-coronal])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-dorsal]:[-dorsal]),

(0, 1, [+dorsal]:[+dorsal]),

(1, 0, [-dorsal]:[-dorsal]),

(1, 0, [+dorsal]:[-dorsal])

Note: This is a ‘place’ dissimilation, which can be thought of as a combination of several FSTs restricting combinations for each place.

**Language:** Kammu

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:644

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(1, 0, [+rhotic]:[-rhotic])

Note: takes place on a consonantal tier

**Language:** Kurmanji

**Pattern:** Pharyngealization dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:645

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-pharyngeal]:[-pharyngeal]),

(0, 1, [+pharyngeal]:[+pharyngeal]),

(1, 0, [-pharyngeal]:[-pharyngeal]),

(1, 0, [+pharyngeal]:[-pharyngeal])

Note: takes place on a consonantal tier

**Language:** Muna

**Pattern:** NC dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [+nasal])

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 2, [-nasal]:[-nasal]),

(1, 1, [+nasal]:[+nasal]),

(2, 0, [-nasal]:[-nasal]),

(2, 3, [+nasal]: $\varepsilon$ ),

(3, 0, [-nasal]:[-nasal]),

(3, 1, [+nasal]:[+nasal][+nasal])

Note: takes place on a consonantal tier

**Language:** Muna

**Pattern:** NC dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:646

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ ), (3, [-nasal, +consonantal])

Transitions: (0, 0, [+nasal]:[+nasal]),

(0, 1, [-nasal]:[-nasal]),

(1, 2, [+nasal]:[+nasal]),

(2, 2, [+nasal]:[+nasal]),

(2, 3, [-nasal, +consonantal]: $\varepsilon$ ),

(3, 2, [+nasal]:[+nasal]),

(3, 3, [-nasal, +consonantal]:[-nasal][+consonantal])

**Language:** Ngbaka

**Pattern:** Vowel-height dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-high]:[-high]),

(0, 0, [-back]:[-back]),

(0, 1, [+high, +back]:[+high]),

(1, 0, [-high]:[-high]),

(1, 0, [-back]:[-back]),

(1, 0, [+high, +back]:[-high])

Note: takes place on a vowel tier

**Language:** Ponapean

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

**Language:** Proto-Indo-European

**Pattern:** Liquid dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-liquid]:[-liquid]),

(0, 1, [+liquid]:[+liquid]),

(1, 0, [+consonantal]:[+consonantal]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+liquid]:[-liquid]),

(2, 0, [-liquid]:[-liquid])

**Language:** Proto-Indo-European

**Pattern:** Voicing dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-voice]:[-voice]),

(0, 1, [+voice]:[+voice]),

(1, 0, [+voice]:[+voice]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+voice]:[-voice]),

(2, 0, [-voice]:[-voice])

**Language:** Quechua (Bolivian)

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Quechua (Bolivian)

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Quechua (Cuzco)

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Quechua (Cuzco)

**Pattern:** Spread-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:647

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-spread glottis]:[-spread glottis]),

(0, 1, [+spread glottis]:[+spread glottis]),

(1, 1, [-spread glottis]:[-spread glottis]),

(1, 0, [+spread glottis]:[-spread glottis])

**Language:** Russian

**Pattern:** Place dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Suzuki 1998:152, Alderete 1997

**FSTs:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial]:[+labial]),

(1, 0, [-labial]:[-labial]),

(1, 0, [+labial]:[-labial])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [-continuant]:[-continuant]),

(0, 1, [+coronal, +continuant]:[+coronal, +continuant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, +continuant]:[-continuant])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [+continuant]:[+continuant]),

(0, 1, [+coronal, -continuant]:[+coronal, -continuant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, -continuant]:[+continuant])

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-coronal]:[-coronal]),

(0, 0, [-sonorant]:[-sonorant]),

(0, 1, [+coronal, +sonorant]:[+coronal, +sonorant]),

(1, 0, [-coronal]:[-coronal]),

(1, 0, [+coronal, +sonorant]:[-sonorant])

**Language:** Semelai

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 0, [+rhotic]:[-rhotic])

**Language:** Sre

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 0, [+rhotic]:[-rhotic])

**Language:** Sre

**Pattern:** Rhotic dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 0, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(2, 0, [+rhotic]:[-rhotic]),

(2, 0, [-rhotic]:[-rhotic])

**Language:** Tagalog

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 0, [-nasal]:[-nasal]),

(0, 1, [+labial, +nasal]:[+labial, +nasal]),

(1, 0, /=um=/ infix:not /=um=/ infix

(1, 1, [-syllabic]:[-syllabic]),

(1, 1, [+syllabic]:[+syllabic])

Note: only applies to the infix /=um=/

**Language:** Tagalog

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=um=/ infix:not /=um=/ infix),

(0, 1, /=um=/ infix:/=um=/ infix),

(1, 1, [-nasal]:[-nasal]),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial, +nasal]: $\varepsilon$ )

Note: only applies to the infix /=um=/

**Language:** Takelma

**Pattern:** Nasal dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial, +nasal]:[+labial, +nasal]),

(1, 0, [+coronal, +nasal]:[+lateral, -nasal]),

(1, 1, [-nasal]:[-nasal]),

(0, 0, [-coronal]:[-coronal])

**Language:** Takelma

**Pattern:** Nasal dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 1, [+nasal]:[+nasal]),

(1, 0, [+coronal, +nasal]:[+lateral, -nasal]),

(1, 1, [-nasal]:[-nasal]),

(1, 1, [-coronal]:[-coronal])

**Language:** Thao

**Pattern:** Labial dissimilation

**Direction:** Left-to-right

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-nasal]:[-nasal]),

(0, 0, [-labial]:[-labial]),

(0, 1, [+labial, +nasal]:[+labial, +nasal]),

(1, 0, /=um=/ infix:not /=um=/ infix),

(1, 1, [-syllabic]:[-syllabic]),

(1, 1, [+syllabic]:[+syllabic])

Note: only applies to the infix /=um=/

**Language:** Thao

**Pattern:** Labial dissimilation

**Direction:** Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, not /=um=/ infix:not /=um=/ infix),

(0, 1, /=um=/ infix:/=um=/ infix),

(1, 1, [-labial]:[-labial]),

(1, 0, [+labial]: $\varepsilon$ )

Note: only applies to the infix /=um=/

**Language:** Tigre

**Pattern:** Guttural dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-guttural]:[-guttural]),

(0, 1, [+guttural]:[+guttural]),

(1, 1, [-guttural]:[-guttural]),

(1, 0, [+guttural]:[-guttural])

**Language:** Tigrinya

**Pattern:** Guttural dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:648

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-guttural]:[-guttural]),

(0, 1, [+guttural]:[+guttural]),

(1, 1, [-guttural]:[-guttural]),

(1, 0, [+guttural]:[-guttural])

**Language:** Tzeltal

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Tzeltal

**Pattern:** Vowel-backness dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:156

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-back]:[-back]),

(0, 0, [-high]:[-high]),

(0, 1, [+back, +high]:[+back, +high]),

(1, 0, [-back]:[-back]),

(1, 0, [-high]:[-high]),

(1, 0, [+back, +high]:[-back, +high])

Note: takes place on a vowel tier

**Language:** Tzutujil

**Pattern:** Constricted-glottis dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-constricted glottis]:[-constricted glottis]),

(0, 1, [+constricted glottis]:[+constricted glottis]),

(1, 1, [-constricted glottis]:[-constricted glottis]),

(1, 0, [+constricted glottis]:[-constricted glottis])

**Language:** Warlpiri

**Pattern:** Rhotic dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-rhotic]:[-rhotic]),

(0, 1, [+rhotic]:[+rhotic]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+rhotic]:[+rhotic]),

(1, 0, [-rhotic]:[-rhotic]),

(2, 0, [-rhotic]:[-rhotic]),

(2, 0, [+rhotic]:[-rhotic, +lateral])

**Language:** Xiamen

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),

(0, 1, [+labial], [+labial]),

(1, 2, [+syllabic]:[+syllabic]),

(1, 1, [+labial]:[+labial]),

(2, 0, [+labial]:[-labial]),

(2, 0, [-labial]:[-labial])

**Language:** Xiamen

**Pattern:** Nasal dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Bennett 2013:649

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ ), (2,  $\varepsilon$ )

Transitions: (0, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (0, 1, [+nasal, +consonantal], [+nasal, +consonantal]),  
 (1, 2, [+nasal, +syllabic]:[+nasal, +syllabic]),  
 (1, 1, [+nasal, +consonantal]:[+nasal, +consonantal]),  
 (1, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (2, 0, [-nasal, +consonantal]:[-nasal, +consonantal]),  
 (2, 0, [+nasal, +consonantal]:[-nasal])

**Language:** Yao

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 1, [-labial]:[-labial]),  
 (1, 0, [+labial]:[-labial])

**Language:** Yucatec Mayan

**Pattern:** Place dissimilation

**Direction:** Left-to-right or Right-to-left

**Sources:** Bennett 2013:649, Suzuki 1998:152, Yip 1989

**FSTs:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 0, [-labial]:[-labial]),  
 (1, 0, [+labial]:[-labial])  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )  
 Transitions: (0, 0, [-coronal]:[-coronal]),  
 (0, 1, [+coronal]:[+coronal]),  
 (1, 0, [-coronal]:[-coronal]),  
 (1, 0, [+coronal]:[-coronal])  
 States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-dorsal]:[-dorsal]),  
 (0, 1, [+dorsal]:[+dorsal]),  
 (1, 0, [-dorsal]:[-dorsal]),  
 (1, 0, [+dorsal]:[-dorsal])

Note: This is a ‘place’ dissimilation, which can be thought of as a combination of several FSTs restricting combinations for each place.

**Language:** Zulu

**Pattern:** Labial dissimilation

**Direction:** Left-to-right or Right-to-left

**Source:** Suzuki 1998:153

**FST:**

States: (0,  $\varepsilon$ ), (1,  $\varepsilon$ )

Transitions: (0, 0, [-labial]:[-labial]),  
 (0, 1, [+labial]:[+labial]),  
 (1, 1, [-labial]:[-labial]),  
 (1, 0, [+labial]:[-labial])

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