

Appendix 1 - Tongue Twister Configuration

```
{
  "Tree": "(Latin,(Romanian,(((Walloon,French),(((Portuguese,PortugueseBrazil),Spanish),
Catalan)),(Friulian,Italian))))";
  "NumberOfStates": 85,
  "McmcSettings": {
    "OnlyCompleteWords": "No",
    "Model": "Custom",
    "CalcMarginal": "No",
    "UseEigenSystem": "No",
    "NumCycles": 300000,
    "PrintFreq": 1000,
    "SampleFreq": 100,
    "TreeLengthPriorVal": 0.15
  },
  "Taxa": ["Latin", "French", "Spanish", "Italian", "PortugueseBrazil", "Portuguese", "Catalan",
"Walloon", "Friulian", "Romanian"],
  "PriorFrequencies": [2.061856,0.984067,4.498594,4.311153,3.655108,4.029991,2.858482,
2.952202,1.218369,0.515464,0.093721,0.140581,1.733833,4.217432,4.123711,3.186504,2.061856,
0.890347,2.811621,0.234302,0.234302,1.499531,2.155576,1.968135,1.640112,0.515464,1.030928,
0.046860,3.186504,0.093721,0.843486,0.046860,0.046860,0.749766,0.046860,0.046860,3.139644,
4.029991,1.405811,1.733833,0.984067,4.217432,0.046860,1.405811,0.046860,0.187441,0.046860,
0.046860,3.842549,0.374883,2.624180,1.265230,0.046860,0.374883,0.046860,0.656045,0.046860,
0.328022,1.358950,0.093721,0.281162,2.671040,0.046860,0.046860,0.468604,0.093721,0.046860,
0.281162,0.046860,0.140581,0.046860,0.046860,0.046860,0.140581,0.749766,0.562324,0.562324,
0.749766,0.046860,0.046860,0.046860,2.952202,0.093721,0.656045,0.046860],
  "PartitionSets": [{"Name": "e", "Set": [1, 6]},{Name": "i", "Set": [3, 21]},{Name": "a", "Set":
[5, 43]},{Name": "u", "Set": [14, 58]},{Name": "o", "Set": [18, 40]},{Name": "ε", "Set": [12]}
,{Name": "ø", "Set": [69, 82]},{Name": "Nasal Vowel", "Set": [9, 25, 29, 30, 31, 34, 35, 49, 53,
54, 77, 79, 80]},{Name": "Vowel", "Set": [10, 11, 24, 26, 27, 33, 44, 46, 47, 52, 56, 57, 60, 62,
63, 66, 70, 72]},{Name": "Nasal Consonant", "Set": [2, 4, 23, 81]},{Name": "Non Syllabic Sonorant",
"Set": [13, 15, 16, 48]},{Name": "Consonant", "Set": [0, 7, 8, 17, 19, 20, 22, 28, 32, 36, 37, 38,
39, 41, 42, 45, 50, 51, 55, 59, 61, 64, 65, 67, 68, 71, 73, 74, 75, 76, 78, 83, 84]}],
  "Words": [
    {"Name": "Woman-Primary", "Data": [
      {"Taxon": "Latin", "Segments": [0, 1, -1, 2, 3, -1, 4, -1, 5, 2]},
      {"Taxon": "French", "Segments": [0, 5, -1, 2, -1, -1, -1, -1, -1, -1]},
      {"Taxon": "Spanish", "Segments": [-1, 6, -1, 2, -1, 7, 8, -1, 5, -1]},
      {"Taxon": "Italian", "Segments": [0, 6, 2, 2, 3, -1, 4, -1, 5, -1]},
      {"Taxon": "PortugueseBrazil", "Segments": [0, 9, -1, 2, 3, -1, -1, -1, 10, -1]},
      {"Taxon": "Portuguese", "Segments": [0, 6, -1, 2, 3, -1, -1, -1, 10, -1]},
      {"Taxon": "Catalan", "Segments": [0, 6, -1, 2, -1, 7, 8, -1, 5, -1]},
      {"Taxon": "Walloon", "Segments": [0, 11, -1, 2, -1, -1, -1, -1, -1, -1]},
      {"Taxon": "Friulian", "Segments": [0, 12, -1, 2, 3, -1, 4, -1, 6, -1]},
      {"Taxon": "Romanian", "Segments": [0, 6, -1, 2, 6, -1, -1, 13, 6, -1]}
    ]},
    {"Name": "Woman-Mulier", "Data": [
      {"Taxon": "Latin", "Segments": [2, 14, 15, 3, 6, 16, 6, 2]},
      {"Taxon": "Spanish", "Segments": [2, 14, 17, -1, 6, 8, -1, -1]},
      {"Taxon": "Italian", "Segments": [2, 18, 19, 19, 6, -1, -1, -1]},
      {"Taxon": "PortugueseBrazil", "Segments": [2, 14, 19, -1, 12, 20, -1, -1]},
      {"Taxon": "Portuguese", "Segments": [2, 14, 19, -1, 12, 8, -1, -1]},
      {"Taxon": "Catalan", "Segments": [2, 14, 19, -1, 6, -1, -1, -1]},
      {"Taxon": "Friulian", "Segments": [2, 14, -1, -1, 21, 16, -1, -1]},
      {"Taxon": "Romanian", "Segments": [2, 14, -1, 13, 6, 16, 6, -1]}
    ]},
    {"Name": "Woman-Domina", "Data": [
      {"Taxon": "Latin", "Segments": [22, 18, 2, 3, 4, 5, 2]},
      {"Taxon": "French", "Segments": [22, 5, 2, -1, -1, -1, -1]},
      {"Taxon": "Spanish", "Segments": [22, 18, 23, -1, -1, 5, -1]},
      {"Taxon": "Italian", "Segments": [22, 24, 4, -1, 4, 5, -1]},
      {"Taxon": "PortugueseBrazil", "Segments": [22, 25, -1, -1, 4, 10, -1]},

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{
  "Taxon": "Portuguese",      "Segments": [22, 18, -1, -1, 4, 10, -1]},
  "Taxon": "Catalan",        "Segments": [22, 24, -1, -1, 4, 26, -1]},
  "Taxon": "Walloon",        "Segments": [22, 5, 2, -1, -1, -1, -1]},
  "Taxon": "Friulian",       "Segments": [22, 24, -1, -1, 4, 6, -1]},
  "Taxon": "Romanian",       "Segments": [22, 27, 2, -1, 4, 26, -1]}
}],
{
  "Name": "Child-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [3, 4, 0, 5, 4, 28, 6, 2]},
    {"Taxon": "French",     "Segments": [29, -1, 0, 29, -1, -1, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [3, 4, 0, 5, 4, 28, 6, -1]},
    {"Taxon": "Italian",    "Segments": [-1, -1, 0, 5, 4, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 0, 31, -1, 32, 3, -1]},
    {"Taxon": "Portuguese", "Segments": [30, -1, 0, 31, -1, 28, 33, -1]},
    {"Taxon": "Walloon",    "Segments": [12, -1, 0, 29, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Child-Ninnus", "Data": [
    {"Taxon": "Spanish",    "Segments": [4, 3, 23, 18]},
    {"Taxon": "Italian",    "Segments": [4, 3, 4, 18]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, 6, 4, 34]},
    {"Taxon": "Portuguese", "Segments": [4, 33, 4, 35]},
    {"Taxon": "Catalan",    "Segments": [4, 12, 4, -1]},
    {"Taxon": "Friulian",   "Segments": [4, 3, 4, 3]}
  ]
},
{
  "Name": "Wife-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [-1, 36, 37, 18, 4, 36, 5, 2]},
    {"Taxon": "French",     "Segments": [6, -1, 37, 14, -1, 38, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [6, 36, 37, 18, -1, 36, 5, -1]},
    {"Taxon": "Italian",    "Segments": [-1, 36, 37, 24, -1, 38, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 36, 37, 18, -1, 38, 10, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 39, 37, 18, -1, 38, 10, -1]},
    {"Taxon": "Catalan",    "Segments": [26, 36, 37, 24, -1, 38, 26, -1]},
    {"Taxon": "Friulian",   "Segments": [-1, 36, 37, 18, -1, 36, 6, -1]}
  ]
},
{
  "Name": "Husband-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [2, 5, 16, 21, 28, 14, 2]},
    {"Taxon": "French",     "Segments": [2, 5, 20, 3, -1, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [2, 5, 8, 3, 22, 18, -1]},
    {"Taxon": "Italian",    "Segments": [2, 5, 16, 3, 28, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [2, 5, 8, 3, 22, 14, -1]},
    {"Taxon": "Portuguese", "Segments": [2, 10, 8, 3, 22, 14, -1]},
    {"Taxon": "Catalan",    "Segments": [2, 26, 8, 3, 28, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [2, 5, 16, 21, 28, -1, -1]},
    {"Taxon": "Romanian",   "Segments": [2, 26, 16, 3, 28, -1, -1]}
  ]
},
{
  "Name": "Husband-Sponsus", "Data": [
    {"Taxon": "Latin",      "Segments": [-1, 36, 37, 18, 4, 36, 14, 2]},
    {"Taxon": "French",     "Segments": [6, -1, 37, 14, -1, -1, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [6, 36, 37, 18, -1, 36, 18, -1]},
    {"Taxon": "Italian",    "Segments": [-1, 36, 37, 24, -1, 38, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 36, 37, 18, -1, 38, 14, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 39, 37, 18, -1, 38, 14, -1]},
    {"Taxon": "Catalan",    "Segments": [26, 36, 37, 24, -1, 36, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [-1, 36, 37, 40, -1, 36, -1, -1]}
  ]
},
{
  "Name": "Husband-Socius", "Data": [
    {"Taxon": "Latin",      "Segments": [36, 18, 41, 3, 14, 2]},
    {"Taxon": "Romanian",   "Segments": [36, 18, 42, -1, -1, -1]}
  ]
},
{
  "Name": "Mother-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [2, 43, 28, 16, 6, 2]},
    {"Taxon": "French",     "Segments": [2, 12, -1, 20, -1, -1]}
  ]
}
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{
  "Taxon": "Spanish",      "Segments": [2, 5, 22, 8, 6, -1]},
  "Taxon": "Italian",     "Segments": [2, 5, 22, 16, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [2, 35, -1, -1, -1, -1]},
  "Taxon": "Portuguese",  "Segments": [2, 35, -1, -1, -1, -1]},
  "Taxon": "Catalan",     "Segments": [2, 5, -1, 8, 26, -1]},
  "Taxon": "Walloon",     "Segments": [2, 6, -1, 16, -1, -1]},
  "Taxon": "Friulian",    "Segments": [2, 5, -1, 16, 3, -1]}
}],
{
  "Name": "Father-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [37, 5, 28, 16, 6, 2]},
    {"Taxon": "French",     "Segments": [37, 12, -1, 20, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [37, 5, 22, 8, 6, -1]},
    {"Taxon": "Italian",    "Segments": [37, 5, 22, 16, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 44, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 44, -1, -1, -1, -1]},
    {"Taxon": "Catalan",    "Segments": [37, 5, -1, 8, 26, -1]},
    {"Taxon": "Walloon",    "Segments": [37, 12, -1, 16, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [37, 5, -1, 16, 3, -1]}
  ]
},
{
  "Name": "Father-Tata", "Data": [
    {"Taxon": "Latin",      "Segments": [28, 5, 28, 5]},
    {"Taxon": "Spanish",    "Segments": [28, 5, 28, 5]},
    {"Taxon": "Italian",    "Segments": [28, 5, 28, 5]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 5, 28, 5]},
    {"Taxon": "Portuguese", "Segments": [28, 10, 28, 5]},
    {"Taxon": "Friulian",   "Segments": [28, 5, 28, 6]},
    {"Taxon": "Romanian",   "Segments": [28, 5, 28, 26]}
  ]
},
{
  "Name": "Animal-Primary", "Data": [
    {"Taxon": "Latin",      "Segments": [5, 4, 3, 2, 43, 15, 3, 5]},
    {"Taxon": "French",     "Segments": [18, -1, -1, 2, 5, -1, 13, -1]},
    {"Taxon": "Friulian",   "Segments": [-1, 4, 6, 2, 43, 15, -1, -1]},
    {"Taxon": "Romanian",   "Segments": [-1, 4, 26, 2, 5, -1, 13, 6]}
  ]
},
{
  "Name": "Animal-Bestia", "Data": [
    {"Taxon": "Latin",      "Segments": [7, -1, 1, 36, 28, 3, 5, 2]},
    {"Taxon": "Italian",    "Segments": [7, -1, 3, 39, 39, -1, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 3, -1, 39, -1, 5, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 3, -1, 39, -1, 10, -1]},
    {"Taxon": "Walloon",    "Segments": [7, 3, 12, 36, -1, -1, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [7, -1, 3, 36, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Fish-Piskem", "Data": [
    {"Taxon": "Latin",      "Segments": [37, 3, 36, 41, 6, 2]},
    {"Taxon": "Spanish",    "Segments": [37, 6, 45, -1, -1, -1]},
    {"Taxon": "Italian",    "Segments": [37, 6, 39, 39, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 46, 39, -1, 3, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 47, 39, -1, 33, -1]},
    {"Taxon": "Catalan",    "Segments": [37, 6, 39, -1, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [37, 12, 36, -1, -1, -1]},
    {"Taxon": "Romanian",   "Segments": [37, 6, 39, 28, 6, -1]}
  ]
},
{
  "Name": "Fish-Pescion", "Data": [
    {"Taxon": "French",     "Segments": [37, 48, 5, 36, 49]},
    {"Taxon": "Walloon",    "Segments": [37, -1, 12, 50, 25]}
  ]
},
{
  "Name": "Bird-Avem", "Data": [
    {"Taxon": "Latin",      "Segments": [5, 48, 6, 2]},
    {"Taxon": "Spanish",    "Segments": [5, 7, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [5, 51, 3, -1]},
    {"Taxon": "Portuguese", "Segments": [5, 51, 33, -1]}
  ]
}
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    {"Taxon": "Catalan",          "Segments": [5, 48, -1, -1]}
  ]},
  {"Name": "Bird-Aucellus", "Data": [
    {"Taxon": "Latin",           "Segments": [-1, 52, 41, -1, 6, 15, 15, 14, 36]},
    {"Taxon": "French",          "Segments": [48, 5, 38, -1, 18, -1, -1, -1, -1]},
    {"Taxon": "Italian",         "Segments": [-1, 14, 28, 32, 12, 15, 15, 18, -1]},
    {"Taxon": "Catalan",         "Segments": [-1, 14, 36, -1, 6, -1, 19, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [-1, 14, 50, -1, 12, -1, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [-1, 14, 32, 13, 12, -1, 15, -1, -1]}
  ]},
  {"Name": "Bird-Passerem", "Data": [
    {"Taxon": "Latin",           "Segments": [37, 5, 36, 36, 6, 16, 6, 2]},
    {"Taxon": "Spanish",         "Segments": [37, 5, -1, 17, 5, 8, 18, -1]},
    {"Taxon": "Italian",         "Segments": [37, 5, 36, 36, 6, 16, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 5, -1, 36, 5, 8, 14, -1]},
    {"Taxon": "Portuguese",      "Segments": [37, 5, -1, 36, 10, 8, 14, -1]},
    {"Taxon": "Catalan",         "Segments": [37, 5, -1, 36, 26, 8, 26, -1]},
    {"Taxon": "Friulian",        "Segments": [37, 5, -1, 36, 5, 16, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [37, 5, -1, 36, 26, 16, 6, -1]}
  ]},
  {"Name": "Dog-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [41, -1, 5, 4, 6, 2]},
    {"Taxon": "French",          "Segments": [39, 13, 53, -1, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [41, -1, 5, 4, -1, -1]},
    {"Taxon": "Italian",         "Segments": [41, -1, 5, 4, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, -1, 54, -1, -1, -1]},
    {"Taxon": "Portuguese",      "Segments": [41, -1, 54, -1, -1, -1]},
    {"Taxon": "Catalan",         "Segments": [41, -1, 5, -1, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [32, -1, 53, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [55, -1, 5, 4, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [41, -1, 56, 4, 6, -1]}
  ]},
  {"Name": "Louse-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [37, -1, 1, 22, 14, -1, 41, 14, 15, 14, 2]},
    {"Taxon": "French",          "Segments": [37, -1, 14, -1, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [37, 13, 18, -1, -1, -1, 17, -1, -1, 18, -1]},
    {"Taxon": "Italian",         "Segments": [37, -1, 3, 22, 24, 41, 41, -1, 13, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 3, -1, 18, -1, -1, 19, 14, -1, -1]},
    {"Taxon": "Portuguese",      "Segments": [37, -1, 13, -1, 18, -1, -1, 19, 14, -1, -1]},
    {"Taxon": "Catalan",         "Segments": [37, -1, 18, -1, -1, -1, -1, 19, -1, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [37, 13, 14, -1, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [37, -1, 6, 22, 40, -1, -1, 15, 3, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [37, -1, 26, 22, 14, -1, 41, -1, 13, 6, -1]}
  ]},
  {"Name": "Snake-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [36, -1, 6, 16, 37, -1, 6, 4, 28, 6, 2]},
    {"Taxon": "French",          "Segments": [36, -1, 12, 20, 37, -1, 29, -1, -1, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [36, -1, 6, 8, 37, 13, 6, 4, 28, 6, -1]},
    {"Taxon": "Italian",         "Segments": [36, -1, 6, 16, 37, -1, 12, 4, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, -1, 6, 20, 37, -1, 9, -1, 32, 3, -1]},
    {"Taxon": "Portuguese",      "Segments": [36, -1, 33, 8, 37, -1, 9, -1, 28, 33, -1]},
    {"Taxon": "Catalan",         "Segments": [36, -1, 6, 8, 37, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [36, 13, 12, 16, 37, -1, 9, -1, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [36, -1, 5, 16, 37, -1, 3, 4, 28, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [39, -1, 5, 16, 37, -1, 6, -1, -1, -1, -1]}
  ]},
  {"Name": "Worm-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [48, -1, 6, 16, 2, 6, 2]},
    {"Taxon": "French",          "Segments": [51, -1, 12, 20, -1, -1, -1]},
    {"Taxon": "Italian",         "Segments": [51, -1, 12, 16, 2, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 6, 20, 2, 3, -1]},
  ]}

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{"Taxon": "Portuguese",      "Segments": [51, -1, 6, 8, 2, 33, -1]},
{"Taxon": "Catalan",        "Segments": [7, -1, 12, 8, 2, -1, -1]},
{"Taxon": "Walloon",        "Segments": [51, 13, 6, 16, -1, -1, -1]},
{"Taxon": "Friulian",       "Segments": [51, 13, 43, 16, -1, -1, -1]},
{"Taxon": "Romanian",      "Segments": [51, 13, 6, 16, 2, 6, -1]}
}],
{"Name": "Tree-Primary", "Data": [
  {"Taxon": "Latin",        "Segments": [5, 16, 7, 18, 16, 6, 2]},
  {"Taxon": "French",       "Segments": [5, 20, 7, -1, 20, -1, -1]},
  {"Taxon": "Spanish",      "Segments": [5, 8, 7, 18, 15, -1, -1]},
  {"Taxon": "Italian",      "Segments": [5, 15, 7, 6, 16, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [5, 20, 51, 18, 8, 3, -1]},
  {"Taxon": "Portuguese",   "Segments": [5, 8, 51, 14, 8, 33, -1]},
  {"Taxon": "Catalan",      "Segments": [5, -1, 7, -1, 8, 26, -1]},
  {"Taxon": "Walloon",      "Segments": [24, -1, 37, -1, -1, -1, -1]},
  {"Taxon": "Friulian",     "Segments": [5, 16, 7, 14, 15, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [5, 16, 7, 18, 16, 6, -1]}
}],
{"Name": "Forest-Primary", "Data": [
  {"Taxon": "Latin",        "Segments": [36, 3, 15, 48, 5, 2]},
  {"Taxon": "Spanish",      "Segments": [36, 6, 15, 7, 5, -1]},
  {"Taxon": "Italian",      "Segments": [36, 6, 15, 51, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 12, 48, 51, 5, -1]},
  {"Taxon": "Portuguese",   "Segments": [36, 12, 15, 51, 10, -1]},
  {"Taxon": "Catalan",      "Segments": [36, 12, 15, 7, 5, -1]},
  {"Taxon": "Friulian",     "Segments": [36, 12, 15, 51, 6, -1]}
}],
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  {"Taxon": "Italian",      "Segments": [37, 5, 15, 18, -1]},
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  {"Taxon": "Portuguese",   "Segments": [37, 5, 48, -1, -1]},
  {"Taxon": "Catalan",      "Segments": [37, 5, 15, -1, -1]},
  {"Taxon": "Walloon",      "Segments": [37, 57, -1, -1, -1]},
  {"Taxon": "Friulian",     "Segments": [37, 43, 15, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [37, 5, 16, -1, -1]}
}],
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  {"Taxon": "French",       "Segments": [0, 20, 59, 3, -1, -1, -1, -1]},
  {"Taxon": "Spanish",      "Segments": [0, 8, 14, -1, -1, 28, 18, -1]},
  {"Taxon": "Italian",      "Segments": [0, 16, 14, -1, 28, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [0, 8, 14, -1, -1, 28, 10, -1]},
  {"Taxon": "Portuguese",   "Segments": [0, 8, 14, -1, -1, 28, 10, -1]},
  {"Taxon": "Catalan",      "Segments": [0, 8, 14, 13, -1, 28, -1, -1]},
  {"Taxon": "Walloon",      "Segments": [0, 16, 60, -1, -1, 28, -1, -1]},
  {"Taxon": "Friulian",     "Segments": [0, 16, 14, -1, -1, 28, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [0, 16, 14, -1, 41, 28, -1, -1]}
}],
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  {"Taxon": "Italian",      "Segments": [36, 6, 2, 6, -1]}
}],
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  {"Taxon": "French",       "Segments": [36, 26, 2, -1, 29, -1, 36, -1, -1]},
  {"Taxon": "Spanish",      "Segments": [36, 3, 2, 13, 6, 4, 28, 6, -1]},
  {"Taxon": "Italian",      "Segments": [36, 6, 2, -1, 6, 4, 28, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 6, 2, -1, 9, -1, 32, 3, -1]},
  {"Taxon": "Portuguese",   "Segments": [36, 33, 2, -1, 9, -1, 28, 33, -1]}
]
```

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{"Taxon": "Catalan",           "Segments": [36, 26, 2, -1, 6, 4, -1, -1, -1]},
{"Taxon": "Walloon",          "Segments": [36, 3, 2, -1, 9, -1, 36, -1, -1]},
{"Taxon": "Friulian",         "Segments": [36, 6, 2, -1, 12, 4, 32, 12, -1]},
{"Taxon": "Romanian",         "Segments": [36, 26, 2, -1, 33, 4, 42, 26, -1]}
}],
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  {"Taxon": "French",          "Segments": [61, 20, 53, -1, -1, -1]},
  {"Taxon": "Spanish",         "Segments": [61, 8, 5, 4, 18, -1]},
  {"Taxon": "Italian",         "Segments": [61, 16, 5, 4, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [61, 8, 54, -1, -1, -1]},
  {"Taxon": "Portuguese",      "Segments": [61, 8, 54, -1, -1, -1]},
  {"Taxon": "Catalan",         "Segments": [61, 8, 5, -1, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [61, 16, 3, 4, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [61, 16, 5, 4, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [61, 16, 62, -1, -1, -1]}
}],
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  {"Taxon": "French",          "Segments": [0, -1, 11, 13, -1, -1]},
  {"Taxon": "Spanish",         "Segments": [-1, -1, 18, 17, -1, 5]},
  {"Taxon": "Italian",         "Segments": [0, -1, 24, 19, 19, 5]},
  {"Taxon": "PortugueseBrazil", "Segments": [0, -1, 18, 19, -1, 10]},
  {"Taxon": "Portuguese",      "Segments": [0, -1, 18, 19, -1, 10]},
  {"Taxon": "Catalan",         "Segments": [0, -1, 14, 19, -1, 26]},
  {"Taxon": "Walloon",          "Segments": [0, -1, 63, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [0, 48, 6, -1, -1, 6]},
  {"Taxon": "Romanian",         "Segments": [0, -1, 27, -1, 13, 6]}
}],
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  {"Taxon": "Italian",         "Segments": [0, 16, 18, 4, 64, -1, 5]},
  {"Taxon": "PortugueseBrazil", "Segments": [0, 8, 25, -1, 36, -1, 10]},
  {"Taxon": "Portuguese",      "Segments": [0, 8, 25, -1, 36, -1, 10]},
  {"Taxon": "Romanian",         "Segments": [0, 16, 14, 4, 38, -1, 26]}
}],
{"Name": "Root-Primary", "Data": [
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  {"Taxon": "Spanish",         "Segments": [-1, 16, 5, -1, -1, 3, 45, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, 20, 5, -1, -1, 3, 36, -1, -1]},
  {"Taxon": "Portuguese",      "Segments": [-1, 20, 10, -1, -1, 3, 39, -1, -1]},
  {"Taxon": "Catalan",         "Segments": [26, 8, 12, 15, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [-1, 16, 5, 22, 16, 21, 36, -1, -1]}
}],
{"Name": "Root-Radicina", "Data": [
  {"Taxon": "Latin",           "Segments": [16, 43, 22, 21, 41, 21, 4, 5]},
  {"Taxon": "French",          "Segments": [20, 5, -1, -1, 36, 3, 4, -1]},
  {"Taxon": "Walloon",          "Segments": [16, 12, -1, -1, 36, 12, 4, -1]},
  {"Taxon": "Romanian",         "Segments": [16, 26, 22, 26, 32, 3, 4, 26]}
}],
{"Name": "BarkOfATree-Primary", "Data": [
  {"Taxon": "Latin",           "Segments": [41, 18, 16, 28, 3, 41, 6, 2]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 24, 20, 32, 3, 36, 3, -1]},
  {"Taxon": "Portuguese",      "Segments": [41, 24, 8, 28, 3, 36, 33, -1]}
}],
{"Name": "BarkOfATree-Corticea", "Data": [
  {"Taxon": "Latin",           "Segments": [41, 18, 16, 28, 3, -1, 41, 6, 5]},
  {"Taxon": "Spanish",         "Segments": [41, 18, 8, 28, 6, -1, 45, -1, 5]},
  {"Taxon": "Italian",         "Segments": [41, 18, 16, 28, 6, 28, 32, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 18, 20, 32, 3, -1, 36, 10, -1]},
  {"Taxon": "Portuguese",      "Segments": [41, 14, 8, 28, 3, -1, 36, 10, -1]}
]

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}},
{"Name": "BarkOfATree-Scortea", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 36, 41, -1, 18, 16, 28, 6, 5]},
  {"Taxon": "French", "Segments": [6, -1, 41, -1, 24, 20, 36, -1, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 41, -1, 24, 16, 64, -1, 5]},
  {"Taxon": "Catalan", "Segments": [26, 36, 41, -1, 24, 8, 36, -1, 26]},
  {"Taxon": "Walloon", "Segments": [-1, 50, -1, 48, 12, -1, 36, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 41, 48, 5, 16, 32, -1, 6]},
  {"Taxon": "Romanian", "Segments": [-1, 36, 41, -1, 27, 16, 42, -1, 26]}
]},
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  {"Taxon": "French", "Segments": [0, 15, 11, 20, -1, -1]},
  {"Taxon": "Spanish", "Segments": [0, 15, 18, 8, -1, -1]},
  {"Taxon": "Italian", "Segments": [0, 13, 18, 16, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [0, 15, 18, 20, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [0, 15, 18, 8, -1, -1]},
  {"Taxon": "Catalan", "Segments": [0, 15, 24, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [0, 15, 11, 16, -1, -1]},
  {"Taxon": "Friulian", "Segments": [0, 15, 40, 16, -1, -1]},
  {"Taxon": "Romanian", "Segments": [0, 15, 27, 16, 6, -1]}
]},
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  {"Taxon": "French", "Segments": [-1, -1, 12, 20, 7, -1, -1]},
  {"Taxon": "Spanish", "Segments": [65, -1, 6, 8, 7, 5, -1]},
  {"Taxon": "Italian", "Segments": [-1, -1, 12, 16, 7, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 6, 8, 51, 10, -1]},
  {"Taxon": "Portuguese", "Segments": [-1, -1, 12, 8, 51, 10, -1]},
  {"Taxon": "Catalan", "Segments": [-1, -1, 6, 8, 7, 26, -1]},
  {"Taxon": "Walloon", "Segments": [13, -1, 12, -1, 37, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, -1, 6, 16, 7, 6, -1]},
  {"Taxon": "Romanian", "Segments": [13, -1, 5, 16, 7, 26, -1]}
]},
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  {"Taxon": "Spanish", "Segments": [61, 8, 5, 2, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [61, 8, 31, 2, 10, -1]},
  {"Taxon": "Portuguese", "Segments": [61, 8, 10, 2, 10, -1]},
  {"Taxon": "Catalan", "Segments": [61, 8, 5, 2, -1, -1]},
  {"Taxon": "Friulian", "Segments": [61, 16, 5, 2, 6, -1]}
]},
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  {"Taxon": "Italian", "Segments": [0, 14, 4, -1, 6, -1]},
  {"Taxon": "Romanian", "Segments": [0, 14, 4, 13, 6, -1]}
]},
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  {"Taxon": "Spanish", "Segments": [16, -1, 3, 36, 28, 8, 5]},
  {"Taxon": "Italian", "Segments": [16, -1, 12, 36, 28, -1, 5]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, -1, 12, 39, 32, -1, 3]},
  {"Taxon": "Portuguese", "Segments": [20, -1, 6, 39, 28, -1, 33]},
  {"Taxon": "Friulian", "Segments": [16, 13, 6, 36, 28, -1, 6]}
]},
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  {"Taxon": "Italian", "Segments": [41, -1, 18, 28, 6, 4, 4, 5]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, -1, 18, 22, 3, -1, -1, 10]},
  {"Taxon": "Portuguese", "Segments": [41, -1, 18, 22, 3, -1, -1, 10]},
  {"Taxon": "Catalan", "Segments": [41, -1, 18, -1, -1, -1, 4, 4, 26]}
]

```

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```
{
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  "Segments": [41, -1, 66, 3, -1, 4, -1, -1]}
}],
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  {"Taxon": "Spanish",
   "Segments": [37, 13, 6, -1, 15, -1, -1]},
  {"Taxon": "Italian",
   "Segments": [37, -1, 12, 15, 15, 6, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [37, -1, 12, -1, 15, 3, -1]},
  {"Taxon": "Portuguese",
   "Segments": [37, -1, 12, -1, 15, 33, -1]},
  {"Taxon": "Catalan",
   "Segments": [37, -1, 6, -1, 19, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [37, 12, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [37, 13, 12, -1, 15, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [37, 13, 6, -1, 15, 6, -1]}
}],
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  {"Taxon": "French",
   "Segments": [39, 12, 20, -1, -1, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [41, 5, 8, 4, 6, -1]},
  {"Taxon": "Italian",
   "Segments": [41, 5, 16, 4, 6, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [41, 5, 8, 4, 3, -1]},
  {"Taxon": "Portuguese",
   "Segments": [41, 5, 8, 4, 33, -1]},
  {"Taxon": "Catalan",
   "Segments": [41, 5, 8, 4, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [32, 57, 16, -1, -1, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [55, 43, 16, -1, -1, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [41, 5, 16, 4, 6, -1]}
}],
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  {"Taxon": "Spanish",
   "Segments": [36, 5, 4, 61, -1, -1, 8, 6, -1]},
  {"Taxon": "Italian",
   "Segments": [36, 5, 4, 61, 48, 6, -1, -1, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [36, 31, -1, 61, -1, 3, -1, -1, -1]},
  {"Taxon": "Portuguese",
   "Segments": [36, 31, -1, 61, -1, 33, -1, -1, -1]},
  {"Taxon": "Catalan",
   "Segments": [36, 5, 4, -1, -1, -1, -1, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [36, 49, -1, 61, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [36, 5, 4, 41, -1, -1, -1, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [36, 33, 4, 68, -1, 6, -1, -1, -1]}
}],
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  {"Taxon": "French",
   "Segments": [-1, 24, -1, 36, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [48, 6, -1, 36, 18, -1]},
  {"Taxon": "Italian",
   "Segments": [-1, 24, 36, 36, 18, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [-1, 18, -1, 36, 14, -1]},
  {"Taxon": "Portuguese",
   "Segments": [-1, 18, -1, 36, 14, -1]},
  {"Taxon": "Catalan",
   "Segments": [-1, 24, -1, 36, -1, -1]},
  {"Taxon": "Walloon",
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  {"Taxon": "Friulian",
   "Segments": [48, 12, -1, 36, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [-1, 18, -1, 36, -1, -1]}
}],
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  {"Taxon": "Latin",
   "Segments": [5, 22, 3, 37, 6, 2]},
  {"Taxon": "Italian",
   "Segments": [5, 22, 3, 37, 6, -1]}
}],
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  {"Taxon": "Spanish",
   "Segments": [61, 8, 5, 36, 5]},
  {"Taxon": "PortugueseBrazil",
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  {"Taxon": "Portuguese",
   "Segments": [61, 8, 5, 39, 10]},
  {"Taxon": "Catalan",
   "Segments": [61, 8, 6, 39, -1]},
  {"Taxon": "Walloon",
   "Segments": [41, 16, 24, 50, -1]},

```


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```
{
  "Taxon": "Friulian",
  "Segments": [61, 16, 5, 36, -1]}
}],
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  {"Taxon": "French",
   "Segments": [-1, 11, 0, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [48, 6, 7, 18, -1]},
  {"Taxon": "Italian",
   "Segments": [48, 24, 51, 18, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [-1, 18, 51, 14, -1]},
  {"Taxon": "Portuguese",
   "Segments": [-1, 18, 51, 14, -1]},
  {"Taxon": "Catalan",
   "Segments": [-1, 24, 48, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [-1, 14, -1, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [-1, 58, 0, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [-1, 18, 48, -1, -1]}
}],
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  {"Taxon": "French",
   "Segments": [41, -1, 24, 20, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [41, 48, 6, 8, 4, 18]},
  {"Taxon": "Italian",
   "Segments": [41, -1, 24, 16, 4, 18]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [41, -1, 18, 20, 4, 14]},
  {"Taxon": "Portuguese",
   "Segments": [41, -1, 18, 8, 4, 14]},
  {"Taxon": "Catalan",
   "Segments": [41, -1, 24, 8, 4, -1]},
  {"Taxon": "Romanian",
   "Segments": [41, -1, 18, 16, 4, -1]}
}],
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  {"Taxon": "French",
   "Segments": [41, -1, 24, 20, 4, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [41, 48, 12, -1, 4, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [41, 48, 5, 16, -1, -1, -1]}
}],
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   "Segments": [41, 52, 22, 5, 2]},
  {"Taxon": "French",
   "Segments": [41, 69, -1, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [41, 18, 15, 5, -1]},
  {"Taxon": "Italian",
   "Segments": [41, 18, 22, 5, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [41, 52, 22, 10, -1]},
  {"Taxon": "Portuguese",
   "Segments": [41, 52, 22, 10, -1]},
  {"Taxon": "Catalan",
   "Segments": [41, 14, -1, 26, -1]},
  {"Taxon": "Walloon",
   "Segments": [41, 24, 48, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [41, 24, 22, 12, -1]},
  {"Taxon": "Romanian",
   "Segments": [55, 27, 22, 26, -1]}
}],
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   "Segments": [37, 15, 58, 2, 5, 2]},
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   "Segments": [37, 15, 60, 2, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [37, 15, 14, 2, 5, -1]},
  {"Taxon": "Italian",
   "Segments": [37, 13, 14, 2, 5, -1]},
  {"Taxon": "Catalan",
   "Segments": [37, 15, 18, 2, 26, -1]},
  {"Taxon": "Walloon",
   "Segments": [37, 15, 24, 2, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [37, 15, 14, 2, 12, -1]}
}],
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   "Segments": [37, 12, -1, 4, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [37, 6, -1, 23, 5, -1]},
  {"Taxon": "Italian",
   "Segments": [37, 6, 4, 4, 5, -1]},
  {"Taxon": "PortugueseBrazil",
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  {"Taxon": "Portuguese",
   "Segments": [37, 6, -1, 4, 10, -1]},
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  {"Taxon": "Walloon",
   "Segments": [37, 12, -1, 4, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [37, 12, -1, 4, 6, -1]}
]}
```

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```

    {"Taxon": "Romanian",      "Segments": [37, 5, -1, 4, 26, -1]}
  ]},
  {"Name": "Hair-Primary", "Data": [
    {"Taxon": "Latin",        "Segments": [37, -1, 3, 15, 14, 2]},
    {"Taxon": "French",       "Segments": [37, 48, 5, 15, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [37, -1, 6, 15, 18, -1]},
    {"Taxon": "Italian",      "Segments": [37, -1, 6, 15, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 6, 15, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [37, -1, 6, 15, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [37, -1, 12, 15, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [37, -1, 1, 15, -1, -1]},
    {"Taxon": "Romanian",     "Segments": [37, -1, 26, 16, -1, -1]}
  ]},
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    {"Taxon": "Latin",        "Segments": [41, 5, 37, 3, 15, 15, 14, 2]},
    {"Taxon": "French",       "Segments": [39, 26, 51, 69, -1, -1, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [41, 5, 7, 6, -1, 65, 18, -1]},
    {"Taxon": "Italian",      "Segments": [41, 5, 37, 6, 15, 15, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, 7, 6, -1, 15, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [41, 10, 7, 6, -1, 15, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [41, 26, 7, 12, -1, 19, -1, -1]},
    {"Taxon": "Walloon",      "Segments": [68, -1, 51, 12, -1, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [55, 5, 51, 6, 15, -1, -1, -1]}
  ]},
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    {"Taxon": "Latin",        "Segments": [41, 5, 37, 3, -1, 28, 3, 5]},
    {"Taxon": "Spanish",      "Segments": [41, 5, 7, 6, -1, 45, -1, 5]},
    {"Taxon": "Italian",      "Segments": [41, 5, 51, 6, 28, 42, -1, 5]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, 7, 6, -1, 36, -1, 10]},
    {"Taxon": "Portuguese",   "Segments": [41, 10, 7, 6, -1, 36, -1, 10]},
    {"Taxon": "Catalan",      "Segments": [41, 26, 7, 12, -1, 36, -1, 26]},
    {"Taxon": "Friulian",     "Segments": [55, 5, 51, 12, -1, 32, 6, -1]}
  ]},
  {"Name": "Head-Capitium", "Data": [
    {"Taxon": "Latin",        "Segments": [41, 5, 37, 3, -1, 28, 3, 14, 2]},
    {"Taxon": "French",       "Segments": [39, 26, 51, 12, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [41, 5, 7, 6, -1, 45, -1, 18, -1]},
    {"Taxon": "Italian",      "Segments": [41, 5, 51, 6, 28, 42, -1, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, 7, 6, -1, 36, -1, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [41, 10, 7, 6, -1, 36, -1, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [41, 26, 7, 12, -1, 36, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [55, 5, 51, 12, -1, 32, -1, -1, -1]}
  ]},
  {"Name": "Head-Caput", "Data": [
    {"Taxon": "Latin",        "Segments": [41, 5, 37, 14, 28]},
    {"Taxon": "French",       "Segments": [39, 12, 0, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [41, 5, 7, 18, -1]},
    {"Taxon": "Italian",      "Segments": [41, 5, 37, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, 7, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [41, 5, 7, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [41, 5, 37, -1, -1]},
    {"Taxon": "Walloon",      "Segments": [32, 21, 0, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [55, 43, 0, -1, -1]},
    {"Taxon": "Romanian",     "Segments": [41, 5, 37, -1, -1]}
  ]},
  {"Name": "Head-Testa", "Data": [
    {"Taxon": "Latin",        "Segments": [28, -1, 6, 36, 28, 5, 2]},
    {"Taxon": "French",       "Segments": [28, -1, 12, -1, 28, -1, -1]},
    {"Taxon": "Italian",      "Segments": [28, -1, 12, 36, 28, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, -1, 12, 36, 28, 10, -1]},
    {"Taxon": "Portuguese",   "Segments": [28, -1, 6, 39, 28, 10, -1]}
  ]}

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{"Taxon": "Catalan",          "Segments": [28, -1, 6, 36, 28, 26, -1]},
{"Taxon": "Walloon",          "Segments": [28, 13, 12, 36, -1, -1, -1]},
{"Taxon": "Friulian",          "Segments": [28, -1, 12, 36, 28, 6, -1]},
{"Taxon": "Romanian",          "Segments": [42, -1, 70, 36, 28, 26, -1]}
}],
{"Name": "Ear-Primary", "Data": [
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  {"Taxon": "French",          "Segments": [24, 20, 46, -1, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [18, 8, 6, -1, 17, -1, -1, 5, -1]},
  {"Taxon": "Italian",          "Segments": [18, 16, 6, 41, 41, -1, 13, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, 8, 6, -1, -1, -1, 19, 10, -1]},
  {"Taxon": "Portuguese",          "Segments": [18, 8, 10, -1, -1, -1, 19, 10, -1]},
  {"Taxon": "Catalan",          "Segments": [14, 8, 12, -1, -1, -1, 19, 26, -1]},
  {"Taxon": "Walloon",          "Segments": [24, 71, 72, -1, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",          "Segments": [18, 16, 1, -1, -1, -1, 15, 6, -1]},
  {"Taxon": "Romanian",          "Segments": [14, 16, 6, -1, 41, -1, -1, 6, -1]}
}],
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  {"Taxon": "French",          "Segments": [-1, 11, -1, 13, -1, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [-1, 18, -1, 17, 18, -1, -1, -1]},
  {"Taxon": "Italian",          "Segments": [-1, 24, 41, 41, -1, 13, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, 18, -1, -1, -1, 19, 14, -1]},
  {"Taxon": "Portuguese",          "Segments": [-1, 18, -1, -1, -1, 19, 14, -1]},
  {"Taxon": "Catalan",          "Segments": [-1, 14, -1, -1, -1, 19, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [-1, 14, -1, 13, -1, -1, -1, -1]},
  {"Taxon": "Friulian",          "Segments": [51, 18, -1, -1, 15, 3, -1, -1]},
  {"Taxon": "Romanian",          "Segments": [-1, 18, -1, 73, -1, -1, -1, -1]}
}],
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  {"Taxon": "French",          "Segments": [4, 6, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [4, 5, 36, 18, -1]},
  {"Taxon": "Italian",          "Segments": [4, 5, 36, 18, -1]},
  {"Taxon": "Catalan",          "Segments": [4, 5, 36, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [4, 6, -1, -1, -1]},
  {"Taxon": "Friulian",          "Segments": [4, 43, 36, -1, -1]},
  {"Taxon": "Romanian",          "Segments": [4, 5, 36, -1, -1]}
}],
{"Name": "Nose-Nares", "Data": [
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  {"Taxon": "Italian",          "Segments": [4, 5, 16, 3, 32, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [4, 5, 8, 3, 36, -1]},
  {"Taxon": "Portuguese",          "Segments": [4, 10, 8, 3, 39, -1]},
  {"Taxon": "Catalan",          "Segments": [4, 26, 8, 3, 48, -1]}
}],
{"Name": "Mouth-Primary", "Data": [
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  {"Taxon": "French",          "Segments": [7, 14, -1, 39, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [7, 18, -1, 41, 5, -1]},
  {"Taxon": "Italian",          "Segments": [7, 18, 41, 41, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, 18, -1, 41, 10, -1]},
  {"Taxon": "Portuguese",          "Segments": [7, 18, -1, 41, 10, -1]},
  {"Taxon": "Catalan",          "Segments": [7, 18, -1, 41, 26, -1]},
  {"Taxon": "Walloon",          "Segments": [7, 24, -1, 41, -1, -1]},
  {"Taxon": "Friulian",          "Segments": [7, 24, -1, 55, 12, -1]},
  {"Taxon": "Romanian",          "Segments": [7, 14, -1, 41, 26, -1]}
}],
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  {"Taxon": "Latin",          "Segments": [61, 14, 15, 5, 2]},
  {"Taxon": "French",          "Segments": [61, 11, 15, -1, -1]},

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{"Taxon": "Spanish",           "Segments": [61, 18, 15, 5, -1]},
{"Taxon": "Italian",          "Segments": [61, 18, 15, 5, -1]},
{"Taxon": "Catalan",          "Segments": [61, 18, 15, 26, -1]},
{"Taxon": "Walloon",          "Segments": [61, 11, 13, -1, -1]},
{"Taxon": "Friulian",         "Segments": [61, 24, 15, 6, -1]},
{"Taxon": "Romanian",         "Segments": [61, 14, 16, 26, -1]}
]},
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  {"Taxon": "French",          "Segments": [22, -1, 29, -1, -1, -1, -1]},
  {"Taxon": "Spanish",         "Segments": [22, 13, 6, 4, 28, 6, -1]},
  {"Taxon": "Italian",         "Segments": [22, -1, 12, 4, 28, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [22, -1, 9, -1, 32, 3, -1]},
  {"Taxon": "Portuguese",      "Segments": [22, -1, 9, -1, 28, 33, -1]},
  {"Taxon": "Catalan",         "Segments": [22, -1, 6, 4, -1, -1, -1]},
  {"Taxon": "Walloon",         "Segments": [22, -1, 53, -1, -1, -1, -1]},
  {"Taxon": "Friulian",        "Segments": [22, -1, 3, 4, 28, -1, -1]},
  {"Taxon": "Romanian",        "Segments": [22, -1, 3, 4, 28, 6, -1]}
]},
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  {"Taxon": "Latin",           "Segments": [14, 4, 61, -1, 14, 15, 5, 2]},
  {"Taxon": "French",          "Segments": [49, -1, 61, -1, -1, 15, -1, -1]},
  {"Taxon": "Spanish",         "Segments": [14, 23, -1, -1, -1, -1, 5, -1]},
  {"Taxon": "Italian",         "Segments": [14, 4, 61, -1, -1, 13, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 23, -1, -1, -1, -1, 10, -1]},
  {"Taxon": "Portuguese",      "Segments": [14, 23, -1, -1, -1, -1, 10, -1]},
  {"Taxon": "Catalan",         "Segments": [14, 4, 61, -1, 15, 26, -1, -1]},
  {"Taxon": "Walloon",         "Segments": [49, -1, 61, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",        "Segments": [24, 4, 61, -1, 14, 15, 6, -1]},
  {"Taxon": "Romanian",        "Segments": [14, 4, 61, 13, -1, -1, 6, -1]}
]},
{"Name": "Foot-Primary", "Data": [
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  {"Taxon": "Spanish",         "Segments": [37, 13, 6, -1, -1, -1, -1]},
  {"Taxon": "Italian",         "Segments": [37, 13, 12, -1, 22, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 12, -1, -1, -1, -1]},
  {"Taxon": "Portuguese",      "Segments": [37, -1, 12, -1, -1, -1, -1]},
  {"Taxon": "Catalan",         "Segments": [37, -1, 12, 48, -1, -1, -1]},
  {"Taxon": "Walloon",         "Segments": [37, -1, 3, -1, -1, -1, -1]},
  {"Taxon": "Friulian",        "Segments": [37, -1, 21, -1, 28, -1, -1]},
  {"Taxon": "Romanian",        "Segments": [37, 3, 6, -1, 38, -1, -1]}
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  {"Taxon": "French",          "Segments": [74, 29, -1, 7, -1, -1]},
  {"Taxon": "Italian",         "Segments": [61, 5, 2, 7, 5, -1]},
  {"Taxon": "Catalan",         "Segments": [41, 5, 2, 7, 26, -1]},
  {"Taxon": "Walloon",         "Segments": [68, 29, -1, 37, -1, -1]},
  {"Taxon": "Friulian",        "Segments": [75, 5, 2, 7, 6, -1]},
  {"Taxon": "Romanian",        "Segments": [61, 5, 2, 7, 26, -1]}
]},
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  {"Taxon": "Latin",           "Segments": [37, -1, 6, 16, 4, 5, 2]},
  {"Taxon": "Spanish",         "Segments": [37, 13, 6, 8, 4, 5, -1]},
  {"Taxon": "Italian",         "Segments": [37, -1, 12, 16, 4, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 12, 8, 4, 10, -1]},
  {"Taxon": "Portuguese",      "Segments": [37, -1, 6, 8, 4, 10, -1]},
  {"Taxon": "Catalan",         "Segments": [37, -1, 12, 8, 4, 26, -1]}
]},
{"Name": "Leg-Petiolus", "Data": [

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  "Taxon": "Latin",
  "Segments": [37, 6, -1, 28, 3, 18, 15, 14, 2]},
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  "Segments": [37, 6, -1, 45, 3, 18, 15, 18, -1]},
  "Taxon": "Italian",
  "Segments": [37, 3, 28, 32, -1, 24, 15, 18, -1]},
  "Taxon": "Friulian",
  "Segments": [37, 12, -1, 41, -1, 24, 15, -1, -1]},
  "Taxon": "Romanian",
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}],
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      "Taxon": "Spanish",
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      "Taxon": "Italian",
      "Segments": [68, -1, 3, 4, 24, 41, 41, -1, 13, 18, -1]},
      "Taxon": "PortugueseBrazil",
      "Segments": [74, 14, 6, -1, -1, -1, -1, -1, 19, 14, -1]},
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      "Segments": [74, 14, 10, -1, -1, -1, -1, -1, 19, 14, -1]},
      "Taxon": "Catalan",
      "Segments": [74, -1, 26, 4, 18, -1, -1, -1, 19, -1, -1]},
      "Taxon": "Walloon",
      "Segments": [23, -1, -1, 23, 24, -1, -1, -1, -1, -1, -1]},
      "Taxon": "Friulian",
      "Segments": [68, -1, 6, 4, 18, -1, -1, -1, 15, 3, -1]},
      "Taxon": "Romanian",
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    ]
  },
{
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      "Taxon": "French",
      "Segments": [2, 53, -1, -1, -1]},
      "Taxon": "Spanish",
      "Segments": [2, 5, 4, 18, -1]},
      "Taxon": "Italian",
      "Segments": [2, 5, 4, 18, -1]},
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      "Segments": [2, 54, -1, -1, -1]},
      "Taxon": "Portuguese",
      "Segments": [2, 54, -1, -1, -1]},
      "Taxon": "Catalan",
      "Segments": [2, 5, -1, -1, -1]},
      "Taxon": "Walloon",
      "Segments": [2, 53, -1, -1, -1]},
      "Taxon": "Friulian",
      "Segments": [2, 5, 4, -1, -1]},
      "Taxon": "Romanian",
      "Segments": [2, 33, 4, 26, -1]}
    ]
  },
{
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      "Segments": [6, 15, -1, -1]},
      "Taxon": "Spanish",
      "Segments": [5, 15, 5, -1]},
      "Taxon": "Italian",
      "Segments": [5, 15, 5, -1]},
      "Taxon": "PortugueseBrazil",
      "Segments": [5, -1, -1, -1]},
      "Taxon": "Portuguese",
      "Segments": [5, -1, -1, -1]},
      "Taxon": "Catalan",
      "Segments": [5, 15, 26, -1]},
      "Taxon": "Walloon",
      "Segments": [6, 15, -1, -1]},
      "Taxon": "Friulian",
      "Segments": [5, 15, 6, -1]}
    ]
  },
{
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      "Segments": [48, -1, 6, 4, 28, 16, 6, 2]},
      "Taxon": "French",
      "Segments": [51, -1, 29, -1, 28, 20, -1, -1]},
      "Taxon": "Spanish",
      "Segments": [7, 13, 6, 4, 28, 8, 6, -1]},
      "Taxon": "Catalan",
      "Segments": [7, -1, 6, 4, 28, 8, 26, -1]},
      "Taxon": "Walloon",
      "Segments": [51, -1, 53, -1, 28, -1, -1, -1]},
      "Taxon": "Friulian",
      "Segments": [51, -1, 3, 4, 28, 16, 3, -1]},
      "Taxon": "Romanian",
      "Segments": [51, -1, 3, 4, 28, 16, 6, -1]}
    ]
  },
{
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      "Segments": [37, 5, 4, 28, 3, 41, 6, 2]},
      "Taxon": "French",
      "Segments": [37, 29, -1, 36, -1, -1, -1, -1]},
      "Taxon": "Spanish",
      "Segments": [37, 5, 4, 45, -1, -1, 5, -1]},
      "Taxon": "Italian",
      "Segments": [37, 5, 4, 32, -1, -1, 5, -1]},
      "Taxon": "PortugueseBrazil",
      "Segments": [37, 31, -1, 36, -1, -1, 10, -1]},
      "Taxon": "Portuguese",
      "Segments": [37, 31, -1, 36, -1, -1, 10, -1]},
      "Taxon": "Catalan",
      "Segments": [37, 5, 23, 39, -1, -1, 26, -1]},
      "Taxon": "Walloon",
      "Segments": [37, 29, -1, 36, -1, -1, -1, -1]},
      "Taxon": "Friulian",
      "Segments": [37, 5, 4, 42, -1, -1, 6, -1]},
      "Taxon": "Romanian",
      "Segments": [37, 33, 4, 28, 6, 32, 6, -1]}
    ]
  }
}
```

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```
}},
{"Name": "Guts-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [3, 4, 28, 6, 16, 43, 4, 6, 5]},
  {"Taxon": "French", "Segments": [29, -1, 28, -1, 20, 57, -1, 13, -1]},
  {"Taxon": "Spanish", "Segments": [6, 4, 28, -1, 8, 5, 23, -1, 5]},
  {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 28, -1, 8, 31, 23, -1, 10]},
  {"Taxon": "Portuguese", "Segments": [9, -1, 28, -1, 8, 10, 23, -1, 10]},
  {"Taxon": "Catalan", "Segments": [26, 4, 28, -1, 8, 5, 23, -1, 26]}
]},
{"Name": "Neck-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [41, -1, 18, 15, 15, 14, 2]},
  {"Taxon": "French", "Segments": [41, -1, 14, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [41, 48, 6, -1, 65, 18, -1]},
  {"Taxon": "Italian", "Segments": [41, -1, 24, 15, 15, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, -1, 18, -1, 15, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [41, -1, 18, -1, 15, 14, -1]},
  {"Taxon": "Catalan", "Segments": [41, -1, 24, -1, 19, -1, -1]},
  {"Taxon": "Walloon", "Segments": [41, -1, 18, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [41, 48, 12, -1, 15, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [22, -1, 18, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [22, -1, 24, 36, 36, 18, -1]},
  {"Taxon": "Catalan", "Segments": [22, -1, 18, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [22, -1, 18, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [22, 48, 12, -1, 36, -1, -1]},
  {"Taxon": "Romanian", "Segments": [22, -1, 18, -1, 36, -1, -1]}
]},
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  {"Taxon": "Latin", "Segments": [-1, 36, 37, 5, 28, 14, 15, 5, 2]},
  {"Taxon": "French", "Segments": [6, -1, 37, 18, -1, -1, 15, -1, -1]},
  {"Taxon": "Spanish", "Segments": [6, 36, 37, 5, 15, -1, 22, 5, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 37, 5, 15, -1, 15, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 39, 37, 5, 22, 14, -1, 10, -1]},
  {"Taxon": "Portuguese", "Segments": [3, 39, 37, 5, 22, 14, -1, 10, -1]},
  {"Taxon": "Catalan", "Segments": [26, 36, 37, 5, 19, -1, 19, 26, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 36, 37, 5, -1, -1, 15, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 37, 5, -1, -1, 15, 6, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 36, 37, 5, 28, -1, -1, 6, -1]}
]},
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  {"Taxon": "Latin", "Segments": [36, 3, 4, 14, 36]},
  {"Taxon": "French", "Segments": [36, 53, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [36, 6, 4, 18, -1]},
  {"Taxon": "Italian", "Segments": [36, 6, 4, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 46, -1, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 47, -1, 14, -1]},
  {"Taxon": "Catalan", "Segments": [36, 3, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 12, 4, -1, -1]},
  {"Taxon": "Romanian", "Segments": [36, 33, 4, -1, -1]}
]},
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  {"Taxon": "Latin", "Segments": [37, -1, 6, 41, 28, 14, 36]},
  {"Taxon": "French", "Segments": [37, -1, 3, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [37, -1, 6, -1, 32, 18, -1]},
  {"Taxon": "Italian", "Segments": [37, -1, 12, 28, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 46, -1, 28, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [37, -1, 47, -1, 28, 14, -1]},
  {"Taxon": "Catalan", "Segments": [37, -1, 3, -1, 28, -1, -1]},
  {"Taxon": "Friulian", "Segments": [37, -1, 12, -1, 28, -1, -1]}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian",
  "Segments": [37, 13, 6, 37, 28, -1, -1]}
}],
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   "Segments": [37, 48, 5, 28, 20, 3, 4]},
  {"Taxon": "Walloon",
   "Segments": [37, 48, 12, 28, 16, 3, 4]}
]},
{"Name": "Heart-Primary", "Data": [
  {"Taxon": "Latin",
   "Segments": [41, -1, 18, 16, -1]},
  {"Taxon": "French",
   "Segments": [41, -1, 11, 20, -1]},
  {"Taxon": "Italian",
   "Segments": [41, 48, 24, 16, 6]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [41, -1, 24, 8, -1]},
  {"Taxon": "Portuguese",
   "Segments": [41, -1, 18, 8, -1]},
  {"Taxon": "Catalan",
   "Segments": [41, -1, 24, 8, -1]},
  {"Taxon": "Walloon",
   "Segments": [41, -1, 14, 16, -1]},
  {"Taxon": "Friulian",
   "Segments": [41, -1, 58, 16, -1]}
]},
{"Name": "Heart-Anima", "Data": [
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   "Segments": [5, 4, 3, 2, 5, 2]},
  {"Taxon": "French",
   "Segments": [57, -1, -1, 2, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [5, 15, -1, 2, 5, -1]},
  {"Taxon": "Italian",
   "Segments": [5, 15, -1, 2, 5, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [5, 48, -1, 2, 10, -1]},
  {"Taxon": "Portuguese",
   "Segments": [5, 15, -1, 2, 10, -1]},
  {"Taxon": "Walloon",
   "Segments": [57, -1, -1, 2, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [3, 4, 3, 2, 26, -1]}
]},
{"Name": "Liver-Primary", "Data": [
  {"Taxon": "Latin",
   "Segments": [0, -1, 21, 41, 43, 28, 14, 2]},
  {"Taxon": "French",
   "Segments": [0, 48, 5, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [-1, -1, 3, 61, 5, 22, 18, -1]},
  {"Taxon": "Italian",
   "Segments": [0, -1, 6, 61, 5, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [0, -1, 3, 61, 10, 22, 14, -1]},
  {"Taxon": "Portuguese",
   "Segments": [0, -1, 3, 61, 10, 22, 14, -1]},
  {"Taxon": "Catalan",
   "Segments": [0, -1, 6, 68, 26, -1, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [0, -1, 11, -1, -1, 28, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [0, -1, 3, -1, 43, 28, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [0, -1, 3, 41, 5, 28, -1, -1]}
]},
{"Name": "Sun-Primary", "Data": [
  {"Taxon": "Latin",
   "Segments": [36, 40, 15, 6, 2]},
  {"Taxon": "Spanish",
   "Segments": [36, 18, 15, -1, -1]},
  {"Taxon": "Italian",
   "Segments": [36, 18, 15, 6, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [36, 24, 48, -1, -1]},
  {"Taxon": "Portuguese",
   "Segments": [36, 24, 15, -1, -1]},
  {"Taxon": "Catalan",
   "Segments": [36, 24, 15, -1, -1]},
  {"Taxon": "Romanian",
   "Segments": [36, 27, 16, 6, -1]}
]},
{"Name": "Sun-Soliculus", "Data": [
  {"Taxon": "Latin",
   "Segments": [36, 40, 15, 3, 41, 14, 15, 14, 2]},
  {"Taxon": "French",
   "Segments": [36, 24, 15, 72, -1, -1, -1, -1, -1]},
  {"Taxon": "Walloon",
   "Segments": [36, 24, 15, 24, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",
   "Segments": [36, 18, 16, 6, -1, -1, 15, 3, -1]}
]},
{"Name": "Moon-Primary", "Data": [
  {"Taxon": "Latin",
   "Segments": [15, 58, 4, 5, 2]},
  {"Taxon": "French",
   "Segments": [15, 60, 4, -1, -1]},
  {"Taxon": "Spanish",
   "Segments": [15, 14, 4, 5, -1]},
  {"Taxon": "Italian",
   "Segments": [15, 14, 4, 5, -1]},
  {"Taxon": "PortugueseBrazil",
   "Segments": [15, 14, -1, 10, -1]},
  {"Taxon": "Portuguese",
   "Segments": [15, 14, -1, 10, -1]},
  {"Taxon": "Catalan",
   "Segments": [19, 14, 4, 26, -1]},
```

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```

{"Taxon": "Walloon",           "Segments": [15, 69, 4, -1, -1]},
{"Taxon": "Friulian",          "Segments": [15, 14, 4, 6, -1]},
{"Taxon": "Romanian",          "Segments": [15, 14, 4, 26, -1]}
}},
{"Name": "Star-Primary", "Data": [
{"Taxon": "Latin",             "Segments": [-1, 36, 28, -1, 1, 15, 15, 5, 2]},
{"Taxon": "French",             "Segments": [6, -1, 28, 48, 5, -1, 15, -1, -1]},
{"Taxon": "Spanish",            "Segments": [6, 36, 28, 8, 6, -1, 65, 5, -1]},
{"Taxon": "Italian",            "Segments": [-1, 36, 28, -1, 6, 15, 15, 5, -1]},
{"Taxon": "PortugueseBrazil",   "Segments": [3, 36, 28, 8, 6, -1, 15, 10, -1]},
{"Taxon": "Portuguese",         "Segments": [33, 39, 28, 8, 6, -1, 15, 10, -1]},
{"Taxon": "Catalan",            "Segments": [26, 36, 28, -1, 12, -1, 15, -1, -1]},
{"Taxon": "Walloon",            "Segments": [-1, 36, 28, -1, 11, -1, 15, -1, -1]},
{"Taxon": "Friulian",           "Segments": [-1, 36, 28, -1, 12, -1, 15, 6, -1]},
{"Taxon": "Romanian",           "Segments": [-1, 36, 28, -1, 70, -1, -1, -1, -1]}
]},
{"Name": "Water-Primary", "Data": [
{"Taxon": "Latin",             "Segments": [5, -1, 76, -1, 5, 2]},
{"Taxon": "French",             "Segments": [18, -1, -1, -1, -1, -1, -1]},
{"Taxon": "Spanish",            "Segments": [5, -1, 61, 48, 5, -1]},
{"Taxon": "Italian",            "Segments": [5, 41, 41, 48, 5, -1]},
{"Taxon": "PortugueseBrazil",   "Segments": [5, -1, 61, 48, 10, -1]},
{"Taxon": "Portuguese",         "Segments": [5, -1, 61, 48, 10, -1]},
{"Taxon": "Catalan",            "Segments": [44, -1, 61, 48, 26, -1]},
{"Taxon": "Walloon",            "Segments": [12, -1, -1, 48, -1, -1]},
{"Taxon": "Friulian",           "Segments": [5, -1, 61, -1, 6, -1]},
{"Taxon": "Romanian",           "Segments": [5, -1, 37, -1, 26, -1]}
]},
{"Name": "Rain-Primary", "Data": [
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{"Taxon": "French",             "Segments": [37, 15, 59, -1, -1, 3, -1, -1]},
{"Taxon": "Spanish",            "Segments": [65, -1, 14, -1, 7, 13, 5, -1]},
{"Taxon": "Italian",            "Segments": [37, 13, 24, 22, 68, -1, 5, -1]},
{"Taxon": "PortugueseBrazil",   "Segments": [39, -1, 14, -1, 51, -1, 10, -1]},
{"Taxon": "Portuguese",         "Segments": [39, -1, 14, -1, 51, -1, 10, -1]},
{"Taxon": "Catalan",            "Segments": [37, 15, 14, -1, 74, -1, 26, -1]},
{"Taxon": "Walloon",            "Segments": [37, 15, 12, -1, 0, -1, -1, -1]},
{"Taxon": "Friulian",           "Segments": [37, 15, 18, -1, -1, 13, 6, -1]},
{"Taxon": "Romanian",           "Segments": [37, 15, 27, -1, -1, 13, 6, -1]}
]},
{"Name": "River-Primary", "Data": [
{"Taxon": "Latin",             "Segments": [0, 15, 58, 2, 6, 4]},
{"Taxon": "Italian",            "Segments": [0, 13, 14, 2, 6, -1]},
{"Taxon": "PortugueseBrazil",   "Segments": [0, 15, 14, 2, 3, -1]},
{"Taxon": "Portuguese",         "Segments": [0, 15, 14, 2, 33, -1]},
{"Taxon": "Friulian",           "Segments": [0, 15, 14, 2, -1, -1]}
]},
{"Name": "River-Rivus", "Data": [
{"Taxon": "Latin",             "Segments": [16, 21, 48, 14, 2]},
{"Taxon": "French",             "Segments": [20, 60, -1, -1, -1]},
{"Taxon": "Spanish",            "Segments": [16, 3, -1, 18, -1]},
{"Taxon": "Italian",            "Segments": [16, 3, -1, 18, -1]},
{"Taxon": "PortugueseBrazil",   "Segments": [20, 3, -1, 48, -1]},
{"Taxon": "Portuguese",         "Segments": [20, 3, -1, 14, -1]},
{"Taxon": "Catalan",            "Segments": [16, 3, -1, 48, -1]},
{"Taxon": "Walloon",            "Segments": [16, 12, -1, -1, -1]},
{"Taxon": "Friulian",           "Segments": [16, 3, -1, 14, -1]},
{"Taxon": "Romanian",           "Segments": [16, 33, -1, 48, -1]}
]},
{"Name": "River-Riparia", "Data": [
{"Taxon": "Latin",             "Segments": [16, 21, 37, -1, 43, 16, 3, 5]}
]

```

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```
{
  "Taxon": "French",          "Segments": [20, 3, 51, 13, 12, 20, -1, -1]},
  "Taxon": "Walloon",        "Segments": [16, 3, 51, 21, -1, 16, -1, -1]}
}],
{
  "Name": "Lake-Primary", "Data": [
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    {"Taxon": "Spanish",        "Segments": [15, 5, 61, 18, -1]},
    {"Taxon": "Italian",        "Segments": [15, 5, 61, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, 5, 61, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [15, 5, 61, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [19, 5, 41, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [15, 5, 41, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [15, 43, 28, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [15, 5, 41, -1, -1]}
  ]
},
{
  "Name": "Sea-Primary", "Data": [
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    {"Taxon": "French",          "Segments": [2, 12, 20, -1]},
    {"Taxon": "Spanish",        "Segments": [2, 5, 8, -1]},
    {"Taxon": "Italian",        "Segments": [2, 5, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [2, 5, 20, -1]},
    {"Taxon": "Portuguese",     "Segments": [2, 5, 8, -1]},
    {"Taxon": "Catalan",        "Segments": [2, 5, 8, -1]},
    {"Taxon": "Walloon",        "Segments": [2, 6, 16, -1]},
    {"Taxon": "Friulian",       "Segments": [2, 43, 16, -1]},
    {"Taxon": "Romanian",       "Segments": [2, 5, 16, 6]}
  ]
},
{
  "Name": "Salt-Primary", "Data": [
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    {"Taxon": "French",          "Segments": [36, 12, 15, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [36, 5, 15, -1, -1]},
    {"Taxon": "Italian",        "Segments": [36, 5, 15, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 5, 48, -1, -1]},
    {"Taxon": "Portuguese",     "Segments": [36, 5, 15, -1, -1]},
    {"Taxon": "Catalan",        "Segments": [36, 5, 15, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [36, 6, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [36, 43, 15, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [36, 5, 16, 6, -1]}
  ]
},
{
  "Name": "Stone-Primary", "Data": [
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    {"Taxon": "Italian",        "Segments": [36, 5, 36, 36, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 46, -1, 39, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [36, 47, -1, 39, 14, -1]},
    {"Taxon": "Friulian",       "Segments": [36, 5, -1, 36, -1, -1]}
  ]
},
{
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    {"Taxon": "Latin",          "Segments": [37, -1, 6, 28, 16, 5, 2]},
    {"Taxon": "French",          "Segments": [37, 13, 12, -1, 20, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [37, 13, 6, 22, 8, 5, -1]},
    {"Taxon": "Italian",        "Segments": [37, 13, 12, 28, 16, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 12, 22, 8, 10, -1]},
    {"Taxon": "Portuguese",     "Segments": [37, -1, 12, 22, 8, 10, -1]},
    {"Taxon": "Catalan",        "Segments": [37, -1, 6, 22, 8, 26, -1]},
    {"Taxon": "Walloon",        "Segments": [37, -1, 3, -1, 16, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [37, 13, 6, -1, 16, 6, -1]},
    {"Taxon": "Romanian",       "Segments": [37, 13, 5, 28, 16, 26, -1]}
  ]
},
{
  "Name": "Sand-Primary", "Data": [
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    {"Taxon": "Spanish",        "Segments": [-1, 5, 8, 6, 4, 5]},
    {"Taxon": "Italian",        "Segments": [-1, -1, 16, 6, 4, 5]}
  ]
}
```

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```

{"Taxon": "PortugueseBrazil", "Segments": [-1, 5, 8, 46, -1, 10]},
{"Taxon": "Portuguese", "Segments": [-1, 10, 8, 47, -1, 10]},
{"Taxon": "Catalan", "Segments": [-1, 26, 8, 12, 4, 26]},
{"Taxon": "Walloon", "Segments": [-1, 5, 16, 12, 4, -1]},
{"Taxon": "Friulian", "Segments": [-1, -1, 16, 12, 4, 6]},
{"Taxon": "Romanian", "Segments": [-1, 5, 16, 3, 4, 26]}
}],
{"Name": "Sand-Sabulum", "Data": [
  {"Taxon": "Latin", "Segments": [36, 5, 7, 14, 15, 14, 2]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 44, 7, -1, 8, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 44, 7, -1, 8, 14, -1]},
  {"Taxon": "Catalan", "Segments": [36, 18, -1, -1, 8, 26, -1]}
]},
{"Name": "Sand-Sabulo", "Data": [
  {"Taxon": "Latin", "Segments": [36, 5, -1, 7, 14, 15, 40, 4, 6, 2]},
  {"Taxon": "French", "Segments": [36, 57, -1, 7, -1, 15, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [36, 5, 7, 7, -1, 13, 18, 4, 6, -1]},
  {"Taxon": "Walloon", "Segments": [36, 57, -1, 51, -1, 13, 49, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 5, -1, 51, 5, 15, 24, 4, -1, -1]}
]},
{"Name": "Dust-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [37, 14, 15, 48, 6, 16, 6, 2]},
  {"Taxon": "French", "Segments": [37, 14, 22, -1, -1, 20, -1, -1]},
  {"Taxon": "Italian", "Segments": [37, 18, 15, 51, 6, 16, 6, -1]},
  {"Taxon": "Friulian", "Segments": [37, 24, 15, 51, 5, 16, -1, -1]},
  {"Taxon": "Romanian", "Segments": [37, 14, 15, 7, 6, 16, 6, -1]}
]},
{"Name": "Dust-Pulwus", "Data": [
  {"Taxon": "Spanish", "Segments": [37, 18, 15, 7, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 24, -1, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 24, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [37, 18, 15, -1, -1, 36]}
]},
{"Name": "Earth-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [28, -1, 6, 16, 16, 5, 2]},
  {"Taxon": "French", "Segments": [28, -1, 12, -1, 20, -1, -1]},
  {"Taxon": "Spanish", "Segments": [28, 13, 6, -1, 16, 5, -1]},
  {"Taxon": "Italian", "Segments": [28, -1, 12, 16, 16, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, -1, 6, -1, 20, 10, -1]},
  {"Taxon": "Portuguese", "Segments": [28, -1, 12, -1, 20, 10, -1]},
  {"Taxon": "Catalan", "Segments": [28, -1, 12, -1, 8, 26, -1]},
  {"Taxon": "Walloon", "Segments": [28, -1, 6, -1, 16, -1, -1]},
  {"Taxon": "Friulian", "Segments": [28, 13, 12, -1, 16, 6, -1]},
  {"Taxon": "Romanian", "Segments": [42, -1, 5, -1, 16, 26, -1]}
]},
{"Name": "Cloud-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [4, 58, 7, 1, 36]},
  {"Taxon": "French", "Segments": [4, 60, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [4, 14, 7, 6, -1]},
  {"Taxon": "Italian", "Segments": [4, 14, 7, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [4, 14, 51, 34, -1]},
  {"Taxon": "Portuguese", "Segments": [4, 14, 51, 35, -1]}
]},
{"Name": "Cloud-Nubilus", "Data": [
  {"Taxon": "Latin", "Segments": [4, 58, 7, 3, 15, 14, 2]},
  {"Taxon": "Spanish", "Segments": [4, 14, 7, -1, 15, 18, -1]},
  {"Taxon": "Italian", "Segments": [4, 14, 51, 18, 15, 5, -1]},
  {"Taxon": "Catalan", "Segments": [4, 14, 7, 14, 15, -1, -1]},
  {"Taxon": "Friulian", "Segments": [4, 58, -1, -1, 15, -1, -1]},
  {"Taxon": "Romanian", "Segments": [4, 18, -1, -1, 16, -1, -1]}
]},

```

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```
{
  "Name": "Fog-Primary", "Data": [
    {
      "Taxon": "Latin",
      "Segments": [41, 43, 15, 21, 61, 3, 4, 6, 2]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [41, 5, 15, 3, 74, 34, -1, -1, -1]}},
    {
      "Taxon": "Portuguese",
      "Segments": [41, 10, 15, 3, 74, 35, -1, -1, -1]}},
  ],
  "Name": "Fog-Nebula", "Data": [
    {
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      "Segments": [4, -1, 6, -1, 7, 14, 15, 5, 2]}},
    {
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      "Segments": [4, 13, 6, -1, 7, -1, 15, 5, -1]}},
    {
      "Taxon": "Italian",
      "Segments": [4, -1, 6, 7, 7, -1, 13, 5, -1]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [4, -1, 12, -1, 51, 14, -1, 10, -1]}},
    {
      "Taxon": "Portuguese",
      "Segments": [4, -1, 12, -1, 51, 14, -1, 10, -1]}},
    {
      "Taxon": "Catalan",
      "Segments": [4, -1, 6, -1, -1, 48, 15, 26, -1]}},
    {
      "Taxon": "Walloon",
      "Segments": [4, 13, 60, -1, -1, -1, 15, -1, -1]}},
    {
      "Taxon": "Romanian",
      "Segments": [4, -1, 6, -1, 61, 14, 16, 26, -1]}},
  ],
  "Name": "Fog-Tenebras", "Data": [
    {
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      "Segments": [28, -1, 6, 4, -1, 1, 7, 16, 43, 36]}},
    {
      "Taxon": "Spanish",
      "Segments": [28, -1, 3, 4, 13, 6, 7, 15, 5, 36]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [28, 8, -1, -1, -1, 12, 51, -1, 10, 36]}},
    {
      "Taxon": "Portuguese",
      "Segments": [28, 8, -1, -1, -1, 6, 51, -1, 10, 39]}},
    {
      "Taxon": "Catalan",
      "Segments": [28, -1, 26, 4, -1, 6, 7, 8, 26, 36]}},
  ],
  "Name": "Fog-Caecia", "Data": [
    {
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      "Segments": [41, 44, 41, 3, 5]}},
    {
      "Taxon": "Romanian",
      "Segments": [32, 70, 42, -1, 26]}},
  ],
  "Name": "Sky-Primary", "Data": [
    {
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      "Segments": [41, -1, 44, 15, 14, 2]}},
    {
      "Taxon": "French",
      "Segments": [36, 13, 12, 15, -1, -1]}},
    {
      "Taxon": "Spanish",
      "Segments": [45, 13, 6, 15, 18, -1]}},
    {
      "Taxon": "Italian",
      "Segments": [32, -1, 12, 15, 18, -1]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [36, -1, 12, 48, -1, -1]}},
    {
      "Taxon": "Portuguese",
      "Segments": [36, -1, 12, 48, -1, -1]}},
    {
      "Taxon": "Catalan",
      "Segments": [36, -1, 12, 15, -1, -1]}},
    {
      "Taxon": "Walloon",
      "Segments": [36, -1, 3, 16, -1, -1]}},
    {
      "Taxon": "Friulian",
      "Segments": [32, -1, 21, 15, -1, -1]}},
    {
      "Taxon": "Romanian",
      "Segments": [32, -1, 6, 16, -1, -1]}},
  ],
  "Name": "Wind-Primary", "Data": [
    {
      "Taxon": "Latin",
      "Segments": [48, -1, 6, 4, 28, 14, 2]}},
    {
      "Taxon": "French",
      "Segments": [51, -1, 29, -1, -1, -1, -1]}},
    {
      "Taxon": "Spanish",
      "Segments": [7, 13, 6, 4, 28, 18, -1]}},
    {
      "Taxon": "Italian",
      "Segments": [51, -1, 12, 4, 28, 18, -1]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [51, -1, 9, -1, 28, 14, -1]}},
    {
      "Taxon": "Portuguese",
      "Segments": [51, -1, 9, -1, 28, 14, -1]}},
    {
      "Taxon": "Catalan",
      "Segments": [7, -1, 6, 4, -1, -1, -1]}},
    {
      "Taxon": "Walloon",
      "Segments": [51, -1, 53, -1, -1, -1, -1]}},
    {
      "Taxon": "Friulian",
      "Segments": [51, -1, 3, 4, 28, -1, -1]}},
    {
      "Taxon": "Romanian",
      "Segments": [51, -1, 33, 4, 28, -1, -1]}},
  ],
  "Name": "Snow-Primary", "Data": [
    {
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      "Segments": [4, -1, 3, 48, 6, 2]}},
    {
      "Taxon": "Spanish",
      "Segments": [4, 13, 6, 7, 6, -1]}},
    {
      "Taxon": "Italian",
      "Segments": [4, -1, 6, 51, 6, -1]}},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [4, -1, 12, 51, 3, -1]}},
    {
      "Taxon": "Portuguese",
      "Segments": [4, -1, 12, 51, 33, -1]}},
    {
      "Taxon": "Catalan",
      "Segments": [4, -1, 6, 48, -1, -1]}},
    {
      "Taxon": "Walloon",
      "Segments": [4, -1, 3, 51, 44, -1]}},
    {
      "Taxon": "Friulian",
      "Segments": [4, -1, 1, 0, -1, -1]}},
    {
      "Taxon": "Romanian",
      "Segments": [4, -1, 70, -1, -1, -1]}},
  ],
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Name": "Ice-Primary", "Data": [
    {
      "Taxon": "Latin", "Segments": [61, 6, 15, 58]},
    {
      "Taxon": "French", "Segments": [74, 12, 15, -1]},
    {
      "Taxon": "Spanish", "Segments": [65, 6, 15, 18]},
    {
      "Taxon": "Italian", "Segments": [68, 12, 15, 18]},
    {
      "Taxon": "Catalan", "Segments": [74, 12, 15, -1]},
    {
      "Taxon": "Romanian", "Segments": [68, 6, 16, -1]}
  ]
},
{
  "Name": "Ice-Glacies", "Data": [
    {
      "Taxon": "French", "Segments": [61, 15, 5, -1, 36, -1]},
    {
      "Taxon": "Italian", "Segments": [61, 13, 5, 28, 32, 5]},
    {
      "Taxon": "Catalan", "Segments": [61, 15, 5, -1, 36, -1]},
    {
      "Taxon": "Walloon", "Segments": [61, 15, 12, -1, 36, -1]},
    {
      "Taxon": "Friulian", "Segments": [61, 15, 5, -1, 32, 6]},
    {
      "Taxon": "Romanian", "Segments": [61, -1, 70, -1, 42, 26]}
  ]
},
{
  "Name": "Smoke-Primary", "Data": [
    {
      "Taxon": "Latin", "Segments": [0, 58, 2, 14, 36]},
    {
      "Taxon": "Spanish", "Segments": [-1, 14, 2, 18, -1]},
    {
      "Taxon": "Italian", "Segments": [0, 14, 2, 18, -1]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [0, 14, 2, 14, -1]},
    {
      "Taxon": "Portuguese", "Segments": [0, 14, 2, 14, -1]},
    {
      "Taxon": "Catalan", "Segments": [0, 14, 2, -1, -1]},
    {
      "Taxon": "Friulian", "Segments": [0, 14, 2, -1, -1]},
    {
      "Taxon": "Romanian", "Segments": [0, 14, 2, -1, -1]}
  ]
},
{
  "Name": "Fire-Focus", "Data": [
    {
      "Taxon": "Latin", "Segments": [0, -1, 18, 41, 14, 2]},
    {
      "Taxon": "French", "Segments": [0, -1, 69, -1, -1, -1]},
    {
      "Taxon": "Spanish", "Segments": [0, 48, 6, 61, 18, -1]},
    {
      "Taxon": "Italian", "Segments": [0, 48, 24, 41, 18, -1]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [0, -1, 18, 61, 14, -1]},
    {
      "Taxon": "Portuguese", "Segments": [0, -1, 18, 61, 14, -1]},
    {
      "Taxon": "Catalan", "Segments": [0, -1, 24, 41, -1, -1]},
    {
      "Taxon": "Walloon", "Segments": [0, -1, 11, -1, -1, -1]},
    {
      "Taxon": "Friulian", "Segments": [0, -1, 58, 41, -1, -1]},
    {
      "Taxon": "Romanian", "Segments": [0, -1, 18, 41, -1, -1]}
  ]
},
{
  "Name": "Ash-Primary", "Data": [
    {
      "Taxon": "Latin", "Segments": [41, 3, 4, 6, -1, 16, 6, 2]},
    {
      "Taxon": "French", "Segments": [36, 29, -1, -1, 22, 20, -1, -1]},
    {
      "Taxon": "Italian", "Segments": [32, 6, 4, 6, -1, 16, 6, -1]},
    {
      "Taxon": "Catalan", "Segments": [36, 12, 4, -1, 22, 8, 26, -1]},
    {
      "Taxon": "Walloon", "Segments": [36, 53, -1, -1, 28, -1, -1, -1]}
  ]
},
{
  "Name": "Ash-Cinisia", "Data": [
    {
      "Taxon": "Spanish", "Segments": [45, 6, 4, 3, 45, 5]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [36, 30, -1, -1, 38, 10]},
    {
      "Taxon": "Portuguese", "Segments": [36, 30, -1, -1, 38, 10]},
    {
      "Taxon": "Friulian", "Segments": [32, 3, 4, 3, 36, 12]},
    {
      "Taxon": "Romanian", "Segments": [32, 6, 4, 14, 39, 26]}
  ]
},
{
  "Name": "Road-Primary", "Data": [
    {
      "Taxon": "Latin", "Segments": [48, -1, 3, 5, 2]},
    {
      "Taxon": "French", "Segments": [51, 48, -1, 5, -1]},
    {
      "Taxon": "Spanish", "Segments": [7, -1, 3, 5, -1]},
    {
      "Taxon": "Italian", "Segments": [51, -1, 3, 5, -1]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [51, -1, 3, 10, -1]},
    {
      "Taxon": "Portuguese", "Segments": [51, -1, 3, 10, -1]},
    {
      "Taxon": "Catalan", "Segments": [7, -1, 3, 26, -1]},
    {
      "Taxon": "Walloon", "Segments": [51, -1, 66, -1, -1]}
  ]
}
```


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```

    {"Taxon": "Friulian",          "Segments": [51, -1, 3, 6, -1]}
  ]},
  {"Name": "Road-Strata", "Data": [
    {"Taxon": "Latin",          "Segments": [-1, 36, 28, 16, 43, 28, 5, 2]},
    {"Taxon": "Spanish",        "Segments": [6, 36, 28, 8, 5, 22, 5, -1]},
    {"Taxon": "Italian",        "Segments": [-1, 36, 28, 16, 5, 22, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 36, 28, 8, 5, 22, 10, -1]},
    {"Taxon": "Portuguese",      "Segments": [3, 39, 28, 8, 5, 22, 10, -1]},
    {"Taxon": "Friulian",        "Segments": [-1, 36, 28, 16, 5, 22, 6, -1]}
  ]},
  {"Name": "Road-Camminus", "Data": [
    {"Taxon": "Latin",          "Segments": [41, 5, 2, 2, 21, 4, 14, 2]},
    {"Taxon": "French",          "Segments": [39, 26, -1, 2, 53, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [41, 5, -1, 2, 3, 4, 18, -1]},
    {"Taxon": "Italian",        "Segments": [41, 5, 2, 2, 3, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, -1, 2, 30, 23, 14, -1]},
    {"Taxon": "Portuguese",      "Segments": [41, 10, -1, 2, 3, 23, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [41, 26, -1, 2, 3, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [32, 3, -1, 2, 53, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [55, 5, 2, 3, 4, -1, -1, -1]}
  ]},
  {"Name": "Mountain-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [2, 18, 4, 28, 6, 2]},
    {"Taxon": "French",          "Segments": [2, 49, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [2, 18, 4, 28, 6, -1]},
    {"Taxon": "Italian",        "Segments": [2, 18, 4, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [2, 25, -1, 28, 3, -1]},
    {"Taxon": "Portuguese",      "Segments": [2, 25, -1, 28, 33, -1]},
    {"Taxon": "Catalan",        "Segments": [2, 14, 4, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [2, 49, -1, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [2, 24, 4, 28, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [2, 14, 4, 28, 6, -1]}
  ]},
  {"Name": "Mountain-Montanea", "Data": [
    {"Taxon": "Latin",          "Segments": [2, 18, 4, 28, 43, -1, 4, 6, 5]},
    {"Taxon": "French",          "Segments": [2, 49, -1, 28, 5, -1, 23, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [2, 18, 4, 28, 5, -1, 23, -1, 5]},
    {"Taxon": "Italian",        "Segments": [2, 18, 4, 28, 5, 23, 23, -1, 5]},
    {"Taxon": "PortugueseBrazil", "Segments": [2, 25, -1, 28, 31, -1, 23, -1, 10]},
    {"Taxon": "Portuguese",      "Segments": [2, 25, -1, 28, 10, -1, 23, -1, 10]},
    {"Taxon": "Catalan",        "Segments": [2, 14, 4, 28, 5, -1, 23, -1, 26]},
    {"Taxon": "Walloon",        "Segments": [2, 49, -1, 28, 5, -1, 23, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [2, 18, 4, 28, 5, -1, 23, 6, -1]}
  ]},
  {"Name": "Night-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [4, -1, 18, 55, 28, 6, 2]},
    {"Taxon": "French",          "Segments": [4, 59, 3, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [4, -1, 18, -1, 32, 6, -1]},
    {"Taxon": "Italian",        "Segments": [4, -1, 24, 28, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, -1, 66, -1, 28, 3, -1]},
    {"Taxon": "Portuguese",      "Segments": [4, -1, 66, -1, 28, 33, -1]},
    {"Taxon": "Catalan",        "Segments": [4, -1, 3, -1, 28, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [4, -1, 60, -1, 28, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [23, -1, 24, -1, 28, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [4, -1, 27, 37, 28, 6, -1]}
  ]},
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    {"Taxon": "Spanish",        "Segments": [22, 3, 5, -1]},
    {"Taxon": "Italian",        "Segments": [22, 3, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [22, 3, 10, -1]},

```

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```

    {"Taxon": "Portuguese",      "Segments": [22, 3, 10, -1]},
    {"Taxon": "Catalan",        "Segments": [22, 3, 26, -1]},
    {"Taxon": "Friulian",       "Segments": [22, 3, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [38, 3, -1, -1]}
  ]},
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    {"Taxon": "Latin",          "Segments": [22, 3, 14, 16, 4, 14, 2]},
    {"Taxon": "French",         "Segments": [74, -1, 14, 20, -1, -1, -1]},
    {"Taxon": "Italian",        "Segments": [68, -1, 18, 16, 4, 18, -1]},
    {"Taxon": "Catalan",        "Segments": [74, -1, 18, 8, 4, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [68, -1, 14, -1, -1, -1, -1]}
  ]},
  {"Name": "Day-Diurna", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [74, 24, 8, 4, 10]},
    {"Taxon": "Portuguese",        "Segments": [74, 24, 8, 4, 10]}
  ]},
  {"Name": "Day-Diurnata", "Data": [
    {"Taxon": "Latin",          "Segments": [22, 3, 14, 16, 4, 43, 28, 5]},
    {"Taxon": "French",         "Segments": [74, -1, 14, 20, 4, 6, -1, -1]},
    {"Taxon": "Italian",        "Segments": [68, -1, 18, 16, 4, 5, 28, 5]},
    {"Taxon": "Friulian",       "Segments": [68, -1, 18, 16, 4, 5, 22, 6]}
  ]},
  {"Name": "Year-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [5, 4, 4, 14, 2]},
    {"Taxon": "French",         "Segments": [29, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [5, -1, 23, 18, -1]},
    {"Taxon": "Italian",        "Segments": [5, 4, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, -1, 4, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [10, -1, 4, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [5, -1, 23, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [29, -1, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [5, -1, 4, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [5, 4, -1, -1, -1]}
  ]},
  {"Name": "Name-Nomen", "Data": [
    {"Taxon": "Latin",          "Segments": [4, 40, 2, 6, 4]},
    {"Taxon": "French",         "Segments": [4, 49, -1, -1, -1]},
    {"Taxon": "Italian",        "Segments": [4, 40, 2, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, 18, 2, 3, -1]},
    {"Taxon": "Portuguese",     "Segments": [4, 18, 2, 33, -1]},
    {"Taxon": "Catalan",        "Segments": [4, 24, 2, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [4, 49, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [4, 24, 4, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [4, 14, 2, 6, -1]}
  ]},
  {"Name": "Name-Nominem", "Data": [
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    {"Taxon": "Spanish",        "Segments": [4, 18, 2, -1, 7, 8, 6, -1]}
  ]},
  {"Name": "Tongue-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [15, 3, 4, 67, -1, 5, 2]},
    {"Taxon": "French",         "Segments": [15, 29, -1, 61, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [15, 6, 4, 61, 48, 5, -1]},
    {"Taxon": "Italian",        "Segments": [15, 3, 4, 61, 48, 5, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, 30, -1, 61, 48, 10, -1]},
    {"Taxon": "Portuguese",     "Segments": [15, 30, -1, 61, 48, 10, -1]},
    {"Taxon": "Catalan",        "Segments": [19, 12, 4, 61, 48, 26, -1]},
    {"Taxon": "Walloon",        "Segments": [15, 53, -1, -1, 51, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [15, 12, 4, 61, -1, 6, -1]},
    {"Taxon": "Romanian",       "Segments": [15, 3, 2, 7, -1, 26, -1]}
  ]},
  ]},

```

Appendix 1 - Tongue Twister Configuration

```
{
  "Name": "I-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [-1, 6, 61, 40] },
    { "Taxon": "French", "Segments": [74, 26, -1, -1] },
    { "Taxon": "Spanish", "Segments": [65, -1, -1, 18] },
    { "Taxon": "Italian", "Segments": [-1, 3, -1, 18] },
    { "Taxon": "PortugueseBrazil", "Segments": [-1, 6, -1, 48] },
    { "Taxon": "Portuguese", "Segments": [-1, 6, -1, 48] },
    { "Taxon": "Catalan", "Segments": [74, -1, -1, 24] },
    { "Taxon": "Walloon", "Segments": [68, 3, -1, -1] },
    { "Taxon": "Friulian", "Segments": [13, -1, -1, 18] },
    { "Taxon": "Romanian", "Segments": [13, 6, -1, 48] }
  ],
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    { "Taxon": "French", "Segments": [4, 14, -1, -1] },
    { "Taxon": "Spanish", "Segments": [4, 18, -1, 36] },
    { "Taxon": "Italian", "Segments": [4, 18, 3, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [4, 63, -1, 36] },
    { "Taxon": "Portuguese", "Segments": [4, 24, -1, 39] },
    { "Taxon": "Walloon", "Segments": [4, 18, -1, -1] },
    { "Taxon": "Friulian", "Segments": [4, 40, -1, -1] },
    { "Taxon": "Romanian", "Segments": [4, 66, -1, -1] }
  ],
  "Name": "YouPlural-Primary", "Data": [
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    { "Taxon": "French", "Segments": [51, 14, -1, -1] },
    { "Taxon": "Spanish", "Segments": [7, 18, -1, 36] },
    { "Taxon": "Italian", "Segments": [51, 18, 3, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [51, 63, 36, -1] },
    { "Taxon": "Portuguese", "Segments": [51, 24, -1, 39] },
    { "Taxon": "Catalan", "Segments": [7, 14, -1, 36] },
    { "Taxon": "Walloon", "Segments": [51, 18, -1, -1] },
    { "Taxon": "Friulian", "Segments": [51, 40, -1, -1] },
    { "Taxon": "Romanian", "Segments": [51, 66, -1, -1] }
  ],
  "Name": "YouSingular-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [28, 58] },
    { "Taxon": "French", "Segments": [28, 60] },
    { "Taxon": "Spanish", "Segments": [28, 14] },
    { "Taxon": "Italian", "Segments": [28, 14] },
    { "Taxon": "PortugueseBrazil", "Segments": [28, 14] },
    { "Taxon": "Portuguese", "Segments": [28, 14] },
    { "Taxon": "Catalan", "Segments": [28, 14] },
    { "Taxon": "Walloon", "Segments": [28, 3] },
    { "Taxon": "Friulian", "Segments": [28, 14] },
    { "Taxon": "Romanian", "Segments": [28, 14] }
  ],
  "Name": "YouSingular-VostramMercedem", "Data": [
    { "Taxon": "Spanish", "Segments": [-1, 14, 36, 28, 6, 22] },
    { "Taxon": "PortugueseBrazil", "Segments": [51, 18, 36, -1, 6, -1] },
    { "Taxon": "Portuguese", "Segments": [51, 24, 36, -1, 6, -1] },
    { "Taxon": "Catalan", "Segments": [7, 14, 36, 28, 12, -1] }
  ],
  "Name": "ToDrink-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [7, -1, 3, 7, 6, 16, 6] },
    { "Taxon": "French", "Segments": [7, 48, 57, -1, -1, 20, -1] },
    { "Taxon": "Spanish", "Segments": [7, -1, 6, 7, 6, 8, -1] },
    { "Taxon": "Italian", "Segments": [7, -1, 6, -1, -1, 16, 6] },
    { "Taxon": "PortugueseBrazil", "Segments": [7, -1, 6, 7, 6, 8, -1] },
    { "Taxon": "Portuguese", "Segments": [7, -1, 33, 7, 6, 8, -1] },
    { "Taxon": "Catalan", "Segments": [7, -1, 12, 48, -1, 8, 26] },
  ]
}
```

Appendix 1 - Tongue Twister Configuration

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{"Taxon": "Walloon",          "Segments": [7, -1, 69, -1, -1, 20, -1]},
{"Taxon": "Friulian",        "Segments": [7, -1, 6, 51, 3, -1, -1]},
{"Taxon": "Romanian",        "Segments": [7, -1, 70, -1, -1, -1, -1]}
}},
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  {"Taxon": "Latin",          "Segments": [41, 18, 2, 6, 22, 6, 16, 6]},
  {"Taxon": "Spanish",        "Segments": [41, 18, 2, 6, -1, -1, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 18, 2, 6, -1, -1, -1, -1]},
  {"Taxon": "Portuguese",     "Segments": [41, 14, 2, -1, -1, 6, 8, -1]}
]},
{"Name": "ToEat-Manducare", "Data": [
  {"Taxon": "Latin",          "Segments": [2, 5, 4, 22, 14, 41, 43, 16, 6]},
  {"Taxon": "French",         "Segments": [2, 29, -1, 74, -1, -1, 6, -1, -1]},
  {"Taxon": "Catalan",        "Segments": [2, 26, 23, 74, -1, -1, 5, -1, -1]},
  {"Taxon": "Walloon",        "Segments": [2, 5, 23, -1, -1, -1, 3, -1, -1]},
  {"Taxon": "Friulian",       "Segments": [2, 5, 4, 75, -1, -1, 43, -1, -1]},
  {"Taxon": "Romanian",       "Segments": [2, 33, 4, -1, -1, 41, 5, -1, -1]}
]},
{"Name": "ToBite-Primary", "Data": [
  {"Taxon": "Latin",          "Segments": [2, -1, 18, 16, 22, 1, 16, 6]},
  {"Taxon": "French",         "Segments": [2, -1, 24, 20, 22, -1, 20, -1]},
  {"Taxon": "Spanish",        "Segments": [2, -1, 18, 8, 22, 6, 8, -1]},
  {"Taxon": "Italian",        "Segments": [2, -1, 24, 16, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [2, -1, 18, 20, 22, 6, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [2, -1, 14, 8, 22, 6, 8, -1]},
  {"Taxon": "Friulian",       "Segments": [2, 48, 5, 16, 22, 3, -1, -1]}
]},
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  {"Taxon": "Latin",          "Segments": [2, 18, 16, 36, 3, 41, 43, 16, 6]},
  {"Taxon": "Spanish",        "Segments": [2, 18, -1, 36, -1, 41, 5, 8, -1]},
  {"Taxon": "Italian",        "Segments": [2, 18, 16, 36, 3, 41, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [2, 14, -1, 36, 26, 61, 5, -1, -1]},
  {"Taxon": "Portuguese",     "Segments": [2, 14, -1, 36, 33, 61, 5, 16, -1]},
  {"Taxon": "Catalan",        "Segments": [2, 14, -1, 36, 26, 61, 5, -1, -1]},
  {"Taxon": "Friulian",       "Segments": [2, 18, 16, 36, 6, 43, -1, -1, -1]},
  {"Taxon": "Romanian",       "Segments": [2, 14, 16, 36, 6, 41, 5, -1, -1]}
]},
{"Name": "ToSuck-Primary", "Data": [
  {"Taxon": "French",         "Segments": [36, 60, -1, 36, -1, 6, -1, -1]},
  {"Taxon": "Italian",        "Segments": [36, 14, 41, 41, 13, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [39, 14, -1, 39, 5, 8, -1, -1]},
  {"Taxon": "Portuguese",     "Segments": [39, 14, -1, 39, 5, 8, -1, -1]},
  {"Taxon": "Walloon",        "Segments": [36, 60, -1, 36, -1, 3, -1, -1]},
  {"Taxon": "Friulian",       "Segments": [55, 14, -1, 55, -1, 43, -1, -1]}
]},
{"Name": "ToSuck-Sugere", "Data": [
  {"Taxon": "Latin",          "Segments": [36, 58, -1, 61, 6, 16, 6]},
  {"Taxon": "Italian",        "Segments": [36, 14, 22, 68, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 14, -1, 61, 5, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [36, 14, -1, 61, 5, 8, -1]},
  {"Taxon": "Romanian",       "Segments": [36, 14, -1, 68, -1, 6, -1]}
]},
{"Name": "ToSpit-Primary", "Data": [
  {"Taxon": "Latin",          "Segments": [41, 18, 4, 36, 37, 14, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 14, -1, 36, 37, 3, 8, -1, -1]},
  {"Taxon": "Portuguese",     "Segments": [41, 14, -1, 39, 37, 3, 8, -1, -1]}
]},
{"Name": "ToSpit-Exconspuere", "Data": [
  {"Taxon": "Spanish",        "Segments": [6, 36, 41, 14, -1, 37, 3, 8]},
  {"Taxon": "Catalan",        "Segments": [26, 36, 41, 14, -1, 37, 3, -1]},
  {"Taxon": "Romanian",       "Segments": [-1, 36, 41, 14, 13, 37, 5, -1]}
]

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}},
{"Name": "ToSpit-Sputare", "Data": [
  {"Taxon": "Latin", "Segments": [36, 37, 14, 28, 43, 16, 6]},
  {"Taxon": "Italian", "Segments": [36, 37, 14, 28, 5, 16, 6]},
  {"Taxon": "Friulian", "Segments": [36, 37, 14, 22, 43, -1, -1]}
]},
{"Name": "ToBlow-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [36, 14, 0, 0, 15, 43, 16, 6]},
  {"Taxon": "French", "Segments": [36, 14, -1, 0, 15, 6, -1, -1]},
  {"Taxon": "Italian", "Segments": [36, 18, 0, 0, 13, 5, 16, 6]},
  {"Taxon": "Walloon", "Segments": [36, 24, -1, 0, 15, 6, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 18, -1, 0, 15, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [36, 14, -1, 0, 15, 5, -1, -1]}
]},
{"Name": "ToBreathe-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [16, 6, 36, 37, 21, 16, 43, 16, 6]},
  {"Taxon": "Spanish", "Segments": [16, 6, 36, 37, 3, 8, 5, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 6, 36, 37, 3, 8, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 33, 39, 37, 3, 8, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [16, 26, 36, 37, 3, 8, 5, -1, -1]},
  {"Taxon": "Friulian", "Segments": [16, 6, 36, 37, 3, 16, 43, -1, -1]}
]},
{"Name": "ToLaugh-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [16, 21, -1, 22, 1, 16, 6]},
  {"Taxon": "French", "Segments": [20, 3, -1, -1, -1, 20, -1]},
  {"Taxon": "Spanish", "Segments": [16, 6, -1, -1, 3, 8, -1]},
  {"Taxon": "Italian", "Segments": [16, 3, -1, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 3, -1, -1, -1, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 3, -1, -1, -1, 8, -1]},
  {"Taxon": "Catalan", "Segments": [16, 3, 48, -1, -1, 8, 26]},
  {"Taxon": "Walloon", "Segments": [16, 3, -1, -1, -1, 16, -1]},
  {"Taxon": "Friulian", "Segments": [16, 3, -1, 22, 3, -1, -1]},
  {"Taxon": "Romanian", "Segments": [16, 33, -1, 22, 6, -1, -1]}
]},
{"Name": "ToSee-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [48, -1, 3, 22, 1, 16, 6]},
  {"Taxon": "French", "Segments": [51, 48, 5, -1, -1, 20, -1]},
  {"Taxon": "Spanish", "Segments": [7, -1, -1, -1, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [51, -1, 6, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, -1, -1, -1, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [51, -1, -1, -1, 6, 8, -1]},
  {"Taxon": "Catalan", "Segments": [7, -1, 12, 48, -1, 8, 26]},
  {"Taxon": "Walloon", "Segments": [51, -1, 72, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [51, 13, 18, 22, 3, -1, -1]},
  {"Taxon": "Romanian", "Segments": [51, -1, 6, 22, 70, -1, -1]}
]},
{"Name": "ToHear-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [52, -1, 22, 21, 16, 6]},
  {"Taxon": "French", "Segments": [14, -1, -1, 3, 20, -1]},
  {"Taxon": "Spanish", "Segments": [18, -1, -1, 3, 8, -1]},
  {"Taxon": "Italian", "Segments": [14, -1, 22, 3, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, 51, 3, 8, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [18, 51, 3, 8, -1, -1]},
  {"Taxon": "Catalan", "Segments": [14, -1, -1, 3, -1, -1]},
  {"Taxon": "Walloon", "Segments": [63, -1, 3, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [14, 15, 22, 21, -1, -1]},
  {"Taxon": "Romanian", "Segments": [5, 14, 38, 3, -1, -1]}
]},
{"Name": "ToKnow-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [36, 41, 21, 16, 6]},
  {"Taxon": "Romanian", "Segments": [39, 28, 3, -1, -1]}
]}

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}},
{"Name": "ToKnow-Sapere", "Data": [
  {"Taxon": "Latin", "Segments": [36, 5, 37, -1, 6, 16, 6]},
  {"Taxon": "French", "Segments": [36, 5, 51, 48, 5, 20, -1]},
  {"Taxon": "Spanish", "Segments": [36, 5, 7, -1, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [36, 5, 37, -1, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 5, 7, -1, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 10, 7, -1, 6, 8, -1]},
  {"Taxon": "Catalan", "Segments": [36, 26, 7, -1, 12, -1, -1]},
  {"Taxon": "Walloon", "Segments": [36, 5, 51, -1, 69, 16, -1]},
  {"Taxon": "Friulian", "Segments": [36, 5, 51, -1, 1, -1, -1]}
]},
{"Name": "ToKnow-Cognoscere", "Data": [
  {"Taxon": "Latin", "Segments": [41, 18, 61, 4, 40, 36, 41, 6, 16, 6]},
  {"Taxon": "French", "Segments": [41, 24, -1, 4, 12, -1, 28, -1, 20, -1]},
  {"Taxon": "Spanish", "Segments": [41, 18, -1, 4, 18, 45, -1, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [41, 18, -1, 4, 18, 39, 39, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 18, -1, 23, 6, 36, -1, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [41, 14, -1, 23, 33, 36, -1, 6, 8, -1]},
  {"Taxon": "Catalan", "Segments": [41, 14, -1, 4, 12, 39, -1, 26, -1, -1]},
  {"Taxon": "Walloon", "Segments": [41, 3, -1, 4, 24, 50, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [41, 18, -1, 23, 24, 36, -1, 3, -1, -1]},
  {"Taxon": "Romanian", "Segments": [41, 14, -1, 4, 27, 39, 28, 6, -1, -1]}
]},
{"Name": "ToThink-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [41, -1, 40, 61, 3, 28, 43, 16, 6]},
  {"Taxon": "French", "Segments": [41, 59, -1, -1, 3, 22, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [41, 48, -1, -1, 3, 22, 5, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, -1, 14, 74, 3, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [41, -1, 14, 74, 3, 28, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [41, -1, 14, -1, 13, 22, 5, -1, -1]},
  {"Taxon": "Romanian", "Segments": [41, -1, 14, 68, 6, 28, 5, -1, -1]}
]},
{"Name": "ToThink-Pensare", "Data": [
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  {"Taxon": "French", "Segments": [37, 29, -1, 36, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [37, 6, 4, 36, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [37, 6, 4, 36, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 9, -1, 36, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 9, -1, 36, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [37, 26, 4, 36, 5, -1, -1]},
  {"Taxon": "Walloon", "Segments": [37, 53, -1, 36, 6, -1, -1]},
  {"Taxon": "Friulian", "Segments": [37, 6, 4, 36, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [37, 26, -1, 36, 5, -1, -1]}
]},
{"Name": "ToSmell-Sentire", "Data": [
  {"Taxon": "Latin", "Segments": [36, 6, 4, 28, 21, 16, 6]},
  {"Taxon": "French", "Segments": [36, 29, -1, 28, 3, 20, -1]},
  {"Taxon": "Spanish", "Segments": [36, 6, 4, 28, 3, 8, -1]},
  {"Taxon": "Italian", "Segments": [36, 6, 4, 28, 3, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 9, -1, 32, 3, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 9, -1, 28, 3, 8, -1]},
  {"Taxon": "Catalan", "Segments": [36, 26, 4, 28, 3, -1, -1]},
  {"Taxon": "Walloon", "Segments": [36, 53, -1, 28, 3, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 3, 4, 28, 21, -1, -1]},
  {"Taxon": "Romanian", "Segments": [36, 3, 2, 42, 3, -1, -1]}
]},
{"Name": "ToSmell-Olere", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 18, 15, 1, 16, 6]},
  {"Taxon": "Spanish", "Segments": [-1, 18, 15, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [-1, 18, 15, 3, 16, 6]},
```


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```
{
  "Taxon": "Catalan",      "Segments": [-1, 14, 15, 14, 8, 5]},
  "Taxon": "Friulian",     "Segments": [4, 14, 15, 21, -1, -1]}
}],
{"Name": "ToSmell-Fragrare", "Data": [
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  {"Taxon": "French",     "Segments": [0, 15, 6, -1, 20, 6, -1, -1]},
  {"Taxon": "Italian",    "Segments": [0, 16, 5, 61, 16, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [39, -1, 46, -1, 8, 5, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [39, -1, 47, -1, 8, 5, 8, -1]},
  {"Taxon": "Catalan",     "Segments": [0, 15, 26, 13, 8, 5, -1, -1]}
}],
{"Name": "ToFear-Primary", "Data": [
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  {"Taxon": "Spanish",    "Segments": [28, 6, 2, 6, 8, -1]},
  {"Taxon": "Italian",    "Segments": [28, 6, 2, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 6, 2, 6, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [28, 33, 2, 6, 8, -1]},
  {"Taxon": "Catalan",     "Segments": [28, 6, 2, 26, -1, -1]},
  {"Taxon": "Friulian",    "Segments": [28, 6, 2, 6, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [28, 6, 2, 6, -1, -1]}
}],
{"Name": "ToFear-Tremere", "Data": [
  {"Taxon": "Latin",      "Segments": [28, 16, 6, 2, -1, 6, 16, 6]},
  {"Taxon": "French",     "Segments": [41, 20, 53, -1, 22, -1, 20, -1]},
  {"Taxon": "Spanish",    "Segments": [28, 8, 6, 2, -1, 6, 8, -1]},
  {"Taxon": "Italian",    "Segments": [28, 16, 6, 2, -1, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 8, 6, 2, -1, 6, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [28, 8, 33, 2, -1, 6, 8, -1]},
  {"Taxon": "Friulian",    "Segments": [28, 16, 3, 2, -1, 43, -1, -1]}
}],
{"Name": "ToSleep-Primary", "Data": [
  {"Taxon": "Latin",      "Segments": [22, -1, 18, 16, 2, 21, 16, 6]},
  {"Taxon": "French",     "Segments": [22, -1, 24, 20, 2, 3, 20, -1]},
  {"Taxon": "Spanish",    "Segments": [22, -1, 18, 8, 2, 3, 8, -1]},
  {"Taxon": "Italian",    "Segments": [22, -1, 18, 16, 2, 3, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [22, -1, 18, 20, 2, 3, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [22, -1, 14, 8, 2, 3, 8, -1]},
  {"Taxon": "Catalan",     "Segments": [22, -1, 14, 8, 2, 3, -1, -1]},
  {"Taxon": "Walloon",     "Segments": [22, 48, 12, 20, 2, 3, -1, -1]},
  {"Taxon": "Friulian",    "Segments": [22, -1, 14, 16, 2, 21, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [22, -1, 18, 16, 2, 3, -1, -1]}
}],
{"Name": "ToLive-Primary", "Data": [
  {"Taxon": "Latin",      "Segments": [48, 21, 48, 6, 16, 6]},
  {"Taxon": "French",     "Segments": [51, 3, 51, -1, 20, -1]},
  {"Taxon": "Spanish",    "Segments": [7, 3, 7, 3, 8, -1]},
  {"Taxon": "Italian",    "Segments": [51, 3, 51, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 3, 51, 6, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [51, 3, 51, 6, 8, -1]},
  {"Taxon": "Catalan",     "Segments": [7, 3, 48, -1, 8, 26]},
  {"Taxon": "Friulian",    "Segments": [51, 3, 51, 3, -1, -1]},
  {"Taxon": "Romanian",    "Segments": [51, 3, -1, 5, -1, -1]}
}],
{"Name": "ToDie-Primary", "Data": [
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  {"Taxon": "Spanish",    "Segments": [2, 18, 8, 3, 8, -1]},
  {"Taxon": "Italian",    "Segments": [2, 18, 16, 3, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [2, 18, 20, 6, 8, -1]},
  {"Taxon": "Portuguese",  "Segments": [2, 14, 20, 6, 8, -1]},
  {"Taxon": "Catalan",     "Segments": [2, 14, 8, 3, -1, -1]},
  {"Taxon": "Walloon",     "Segments": [2, 24, 16, 3, -1, -1]},
```

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```
{
  "Taxon": "Friulian",      "Segments": [2, 14, 16, 21, -1, -1]},
  "Taxon": "Romanian",     "Segments": [2, 14, 16, 3, -1, -1]}
}],
{"Name": "ToKill-Primary", "Data": [
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  {"Taxon": "French",     "Segments": [4, 48, 44, -1, 6, -1, -1]},
  {"Taxon": "Catalan",    "Segments": [4, -1, 26, 61, 5, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [4, -1, 6, -1, 43, -1, -1]}
]},
{"Name": "ToKill-Enecare", "Data": [
  {"Taxon": "Latin",      "Segments": [1, 4, 6, 55, 43, 16, 6]},
  {"Taxon": "Spanish",    "Segments": [5, 4, 6, 61, 5, 8, -1]},
  {"Taxon": "Romanian",   "Segments": [33, 4, 6, 41, 5, -1, -1]}
]},
{"Name": "ToKill-Tutari", "Data": [
  {"Taxon": "Latin",      "Segments": [28, 58, -1, 28, 43, 16, 3]},
  {"Taxon": "French",     "Segments": [28, 59, -1, -1, 6, -1, -1]},
  {"Taxon": "Walloon",    "Segments": [28, 14, 48, -1, 6, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [28, 14, -1, 22, 43, -1, -1]}
]},
{"Name": "ToKill-Mactare", "Data": [
  {"Taxon": "Latin",      "Segments": [2, 5, 41, 28, 43, 16, 6]},
  {"Taxon": "Spanish",    "Segments": [2, 5, -1, 28, 5, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [2, 5, -1, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [2, 10, -1, 28, 5, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [2, 26, -1, 28, 5, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [2, 5, -1, 32, 43, -1, -1]}
]},
{"Name": "ToKill-Occidere", "Data": [
  {"Taxon": "Latin",      "Segments": [18, 41, 41, 21, 22, 6, 16, 6]},
  {"Taxon": "French",     "Segments": [24, 41, 36, 3, -1, -1, 20, -1]},
  {"Taxon": "Italian",    "Segments": [14, 28, 32, 3, 22, 6, 16, 6]},
  {"Taxon": "Catalan",    "Segments": [14, 41, 36, 3, -1, -1, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [14, -1, 32, 3, 22, 6, -1, -1]}
]},
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  {"Taxon": "Latin",      "Segments": [37, 14, 61, 4, 43, 16, 6]},
  {"Taxon": "Catalan",    "Segments": [37, 14, -1, 23, 5, -1, -1]}
]},
{"Name": "ToFight-Battuere", "Data": [
  {"Taxon": "Latin",      "Segments": [7, 5, 28, 28, 14, 6, 16, 6]},
  {"Taxon": "French",     "Segments": [7, 5, -1, 28, -1, -1, 20, -1]},
  {"Taxon": "Spanish",    "Segments": [7, 5, -1, 28, -1, 3, 8, -1]},
  {"Taxon": "Italian",    "Segments": [7, 5, 28, 28, -1, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, 5, -1, 28, -1, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [7, 10, -1, 28, -1, 6, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [7, 5, -1, 28, -1, -1, 8, 26]},
  {"Taxon": "Walloon",    "Segments": [7, 5, -1, 28, -1, -1, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [7, 5, -1, 28, -1, 3, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [7, 5, -1, 28, -1, 6, -1, -1]}
]},
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  {"Taxon": "French",     "Segments": [39, 5, -1, 36, -1, 6, -1, -1]},
  {"Taxon": "Spanish",    "Segments": [41, 5, -1, 45, -1, 5, 8, -1]},
  {"Taxon": "Italian",    "Segments": [41, 5, 28, 32, -1, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 5, -1, 36, -1, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [41, 10, -1, 36, -1, 5, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [41, 26, -1, 36, -1, 5, -1, -1]},
  {"Taxon": "Walloon",    "Segments": [32, 12, -1, 36, -1, 3, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [55, 5, -1, 32, -1, 43, -1, -1]}
]}
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Appendix 1 - Tongue Twister Configuration

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}},
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  {"Taxon": "Latin", "Segments": [37, 14, 15, 36, 43, 16, 6]},
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  {"Taxon": "Spanish", "Segments": [37, 14, -1, 17, 5, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 14, -1, 39, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 14, -1, 39, 5, 8, -1]},
  {"Taxon": "Friulian", "Segments": [37, 14, 15, 36, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [37, 14, 15, 36, 5, -1, -1]}
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  {"Taxon": "Spanish", "Segments": [36, -1, 6, 61, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [36, -1, 6, 61, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, -1, 6, 61, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [36, -1, 33, 61, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [36, -1, 26, 61, 5, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, -1, 6, -1, 43, -1, -1]}
]},
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  {"Taxon": "PortugueseBrazil", "Segments": [41, 18, 20, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [41, 14, 8, 28, 5, 8, -1]}
]},
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  {"Taxon": "Italian", "Segments": [-1, -1, 36, 41, 18, 16, 28, 5, 16, 6]},
  {"Taxon": "Friulian", "Segments": [-1, -1, 36, 41, 14, 16, 28, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, -1, 36, 41, 14, 16, 28, 5, -1, -1]}
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{"Name": "ToCut-Taliare", "Data": [
  {"Taxon": "Latin", "Segments": [28, 5, -1, 15, 3, 43, 16, 6]},
  {"Taxon": "French", "Segments": [28, 57, 13, -1, -1, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [28, 5, -1, 17, -1, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [28, 5, -1, 19, 19, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 5, -1, 19, -1, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [28, 10, -1, 19, -1, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [28, 26, -1, 19, -1, 5, -1, -1]},
  {"Taxon": "Walloon", "Segments": [28, 12, -1, -1, 13, 3, -1, -1]},
  {"Taxon": "Friulian", "Segments": [28, 5, -1, -1, 13, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [28, 26, -1, -1, 13, 5, -1, -1]}
]},
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  {"Taxon": "PortugueseBrazil", "Segments": [22, 3, 51, 3, 22, 3, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [22, 33, 51, 33, 22, 3, 8, -1]},
  {"Taxon": "Catalan", "Segments": [22, 3, 7, 3, 22, 3, -1, -1]},
  {"Taxon": "Romanian", "Segments": [22, 3, 51, 3, 22, 6, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [0, 29, -1, 22, -1, 20, -1]},
  {"Taxon": "Spanish", "Segments": [-1, 6, 4, 22, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [0, 12, 4, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [0, 9, -1, 22, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [0, 9, -1, 22, 6, 8, -1]},
  {"Taxon": "Catalan", "Segments": [0, 12, 4, 22, -1, 8, 26]},
  {"Taxon": "Walloon", "Segments": [0, 53, -1, 22, -1, -1, -1]}
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}},

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{"Name": "ToSplit-Partire", "Data": [
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  {"Taxon": "French", "Segments": [37, 5, 20, 28, 3, 20, -1]},
  {"Taxon": "Spanish", "Segments": [37, 5, 8, 28, 3, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 5, 8, 32, 3, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 10, 8, 28, 3, 8, -1]},
  {"Taxon": "Catalan", "Segments": [37, 26, 8, 28, 3, -1, -1]},
  {"Taxon": "Walloon", "Segments": [37, 57, 16, 28, 3, -1, -1]},
  {"Taxon": "Friulian", "Segments": [37, 5, 16, 28, 21, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [36, 26, 51, -1, -1, -1, 20, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 6, 37, 5, 8, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 33, 37, 10, 8, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [36, 26, 37, 26, 8, 5, -1, -1]}
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  {"Taxon": "French", "Segments": [37, 48, 53, -1, 22, -1, 20, -1]},
  {"Taxon": "Italian", "Segments": [37, -1, 14, 4, 68, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, -1, 77, -1, 74, 3, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [37, -1, 77, -1, 74, 3, 8, -1]},
  {"Taxon": "Catalan", "Segments": [37, -1, 14, 23, -1, 3, -1, -1]},
  {"Taxon": "Walloon", "Segments": [37, 49, -1, 22, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [37, -1, 24, 4, 68, 3, -1, -1]}
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  {"Taxon": "Italian", "Segments": [16, 5, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 5, -1, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 10, -1, 6, 8, -1]},
  {"Taxon": "Catalan", "Segments": [16, 5, 48, -1, 8, 26]},
  {"Taxon": "Friulian", "Segments": [16, 5, 22, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [16, 5, 22, 6, -1, -1]}
]},
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  {"Taxon": "Spanish", "Segments": [16, 5, 36, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [16, 5, 36, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 5, 38, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 10, 38, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [16, 26, 38, 5, -1, -1]},
  {"Taxon": "Friulian", "Segments": [16, 5, 36, 43, -1, -1]}
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  {"Taxon": "Portuguese", "Segments": [20, 10, 39, 41, 5, 8]},
  {"Taxon": "Catalan", "Segments": [16, 26, 36, 41, 5, -1]}
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  {"Taxon": "Portuguese", "Segments": [41, 14, 36, 5, 8]}
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  {"Taxon": "French", "Segments": [0, 48, 3, -1, -1, 20, -1]}
]},
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{"Taxon": "Latin", "Segments": [41, 5, 48, 43, 16, 6]},
{"Taxon": "Spanish", "Segments": [41, 5, 7, 5, 8, -1]},
{"Taxon": "Italian", "Segments": [41, 5, 51, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 10, 51, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [41, 10, 51, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [41, 26, 7, 5, -1, -1]},
{"Taxon": "Walloon", "Segments": [32, 5, 51, 6, -1, -1]},
{"Taxon": "Friulian", "Segments": [75, 5, 51, 43, -1, -1]}
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{"Taxon": "Spanish", "Segments": [6, -1, 36, 41, 5, 7, 5, 8, -1]},
{"Taxon": "Italian", "Segments": [-1, -1, 36, 41, 5, 51, 5, 16, 6]},
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{"Taxon": "Portuguese", "Segments": [3, -1, 39, 41, 10, 51, 5, 8, -1]},
{"Taxon": "Friulian", "Segments": [-1, -1, 36, 75, 5, 51, 43, -1, -1]}
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{"Taxon": "PortugueseBrazil", "Segments": [4, -1, 5, 22, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [4, -1, 10, 22, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [4, -1, 26, 22, 5, -1, -1]},
{"Taxon": "Friulian", "Segments": [4, -1, 5, 22, 43, -1, -1]}
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{"Taxon": "PortugueseBrazil", "Segments": [4, 5, 51, 3, 61, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [4, 10, 51, 33, 61, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [4, 26, 7, 26, 61, 5, -1, -1]},
{"Taxon": "Walloon", "Segments": [4, 24, -1, -1, 13, 3, -1, -1]},
{"Taxon": "Friulian", "Segments": [4, 5, 51, 3, 61, 43, -1, -1]}
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{"Taxon": "Spanish", "Segments": [7, 18, 15, 5, 8, -1]},
{"Taxon": "Italian", "Segments": [51, 18, 15, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [51, 18, -1, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [51, 14, -1, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [7, 14, 15, 5, -1, -1]},
{"Taxon": "Walloon", "Segments": [51, 24, 15, 6, -1, -1]}
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{"Taxon": "Friulian", "Segments": [38, 51, 18, 15, 43, -1, -1]},
{"Taxon": "Romanian", "Segments": [38, 7, 14, 16, 5, -1, -1]}
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{"Taxon": "Spanish", "Segments": [41, 5, -1, 2, 3, 4, 5, 8, -1]},
{"Taxon": "Italian", "Segments": [41, 5, 2, 2, 3, 4, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 10, -1, 2, 3, 23, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [41, 10, -1, 2, 3, 23, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [41, 26, -1, 2, 3, 4, 5, -1, -1]},
{"Taxon": "Friulian", "Segments": [55, 5, -1, 2, 3, 4, 43, -1, -1]}
}],
{"Name": "ToWalk-Mergere", "Data": [

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{"Taxon": "Romanian",       "Segments": [2, 6, 16, 68, 6, -1, -1]}
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  {"Taxon": "Italian",        "Segments": [5, 4, 22, -1, -1, 5, 16, 6]},
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  {"Taxon": "Portuguese",     "Segments": [31, -1, 22, -1, -1, 5, 8, -1]}
]},
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  {"Taxon": "Spanish",        "Segments": [7, 6, 4, 3, 8, -1]},
  {"Taxon": "Italian",        "Segments": [51, 6, 4, 3, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, -1, -1, 3, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [51, -1, -1, 3, 8, -1]},
  {"Taxon": "Catalan",        "Segments": [7, 26, 4, 3, -1, -1]},
  {"Taxon": "Walloon",        "Segments": [51, 3, 4, 3, -1, -1]},
  {"Taxon": "Friulian",       "Segments": [51, 3, 23, 21, -1, -1]},
  {"Taxon": "Romanian",      "Segments": [51, 6, 4, 3, -1, -1]}
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  {"Taxon": "Spanish",        "Segments": [6, 41, 36, 28, 6, 4, 22, 6, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, -1, 36, 28, 9, -1, 22, 6, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [33, -1, 39, 28, 9, -1, 22, 6, 8, -1]},
  {"Taxon": "Catalan",        "Segments": [26, -1, 36, 28, 6, 4, 22, -1, 8, 26]},
  {"Taxon": "Friulian",       "Segments": [-1, -1, 36, 28, 3, 4, 22, 3, -1, -1]},
  {"Taxon": "Romanian",      "Segments": [6, 41, 36, 28, 3, 4, 22, 6, -1, -1]}
]},
{"Name": "ToLieAsInABed-Iacere", "Data": [
  {"Taxon": "Latin",           "Segments": [13, 5, -1, 41, 1, 16, 6]},
  {"Taxon": "French",          "Segments": [74, 6, -1, 38, 3, 20, -1]},
  {"Taxon": "Spanish",        "Segments": [65, 5, -1, 45, 6, 8, -1]},
  {"Taxon": "Italian",        "Segments": [68, 5, -1, 32, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [74, 10, -1, 38, 6, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [74, 10, -1, 38, 6, 8, -1]},
  {"Taxon": "Catalan",        "Segments": [74, 5, 48, -1, -1, 8, 26]},
  {"Taxon": "Walloon",        "Segments": [68, 3, -1, -1, -1, 16, -1]},
  {"Taxon": "Friulian",       "Segments": [13, 6, -1, 36, 3, -1, -1]},
  {"Taxon": "Romanian",      "Segments": [38, 26, -1, 32, 70, -1, -1]}
]},
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  {"Taxon": "Spanish",        "Segments": [36, -1, 6, -1, -1, 8, -1]},
  {"Taxon": "Italian",        "Segments": [36, -1, 6, 22, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, -1, 6, -1, -1, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [36, -1, 6, -1, -1, 8, -1]},
  {"Taxon": "Friulian",       "Segments": [36, -1, 46, -1, -1, -1, -1]},
  {"Taxon": "Romanian",      "Segments": [39, -1, 6, 22, 70, -1, -1]}
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  {"Taxon": "PortugueseBrazil", "Segments": [36, 9, -1, -1, -1, 28, 5, 8, -1]},
  {"Taxon": "Portuguese",     "Segments": [36, 9, -1, -1, -1, 28, 5, 8, -1]},
  {"Taxon": "Friulian",       "Segments": [36, 6, -1, -1, 4, 28, 43, -1, -1]}
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}},
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  {"Taxon": "Spanish", "Segments": [6, 36, 28, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 28, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 39, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [33, 39, 28, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [26, 36, 28, 5, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 28, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 36, 28, 5, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [15, 26, 51, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [65, 6, 7, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [15, 6, 51, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [15, 6, 51, 5, 8, -1]},
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  {"Taxon": "Walloon", "Segments": [15, 12, 51, 6, -1, -1]},
  {"Taxon": "Friulian", "Segments": [15, 6, 51, 43, -1, -1]},
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  {"Taxon": "Portuguese", "Segments": [5, 15, 36, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [26, 15, 36, 5, -1, -1]},
  {"Taxon": "Walloon", "Segments": [18, -1, 36, 3, -1, -1]},
  {"Taxon": "Friulian", "Segments": [5, 15, 32, 43, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [28, 14, 20, 4, 6, -1, -1]},
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  {"Taxon": "Italian", "Segments": [28, 18, 16, 4, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 18, 20, 4, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [28, 14, 8, 4, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [28, 14, 16, 4, 5, -1, -1]},
  {"Taxon": "Walloon", "Segments": [28, 14, 16, 4, 6, -1, -1]},
  {"Taxon": "Friulian", "Segments": [28, 18, 16, 4, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [28, 14, 16, 4, 5, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [74, 3, 20, 6, -1, -1]},
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  {"Taxon": "Italian", "Segments": [68, 3, 16, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [74, 3, 8, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [74, 3, 8, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [74, 3, 8, 5, -1, -1]},
  {"Taxon": "Friulian", "Segments": [68, 3, 16, 43, -1, -1]}
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  {"Taxon": "French", "Segments": [-1, 28, -1, 24, 20, 22, -1, 20, -1]},
  {"Taxon": "Spanish", "Segments": [-1, 28, -1, 18, 8, 45, 6, 8, -1]},
  {"Taxon": "Italian", "Segments": [-1, 28, -1, 24, 16, 32, 6, 16, 6]},

```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "PortugueseBrazil", "Segments": [-1, 28, -1, 14, 16, 36, 6, 8, -1]},
  "Taxon": "Portuguese", "Segments": [-1, 28, -1, 14, 16, 36, 6, 8, -1]},
  "Taxon": "Catalan", "Segments": [-1, 28, -1, 24, 8, 36, 26, -1, -1]},
  "Taxon": "Friulian", "Segments": [36, 28, 48, 5, 16, 64, 3, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, 28, -1, 27, 16, 32, 6, -1, -1]}
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{
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    {"Taxon": "Spanish", "Segments": [41, -1, 5, -1, 6, 8, -1]},
    {"Taxon": "Italian", "Segments": [41, -1, 5, 22, 6, 16, 6]},
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    {"Taxon": "Portuguese", "Segments": [41, -1, 10, -1, 3, 8, -1]},
    {"Taxon": "Catalan", "Segments": [41, -1, 5, 48, -1, 8, 26]},
    {"Taxon": "Walloon", "Segments": [32, -1, 12, -1, -1, 16, -1]},
    {"Taxon": "Friulian", "Segments": [55, -1, 5, 22, 6, -1, -1]},
    {"Taxon": "Romanian", "Segments": [41, -1, 26, 22, 70, -1, -1]}
  ]
},
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    {"Taxon": "Spanish", "Segments": [22, 5, 8, -1]},
    {"Taxon": "Italian", "Segments": [22, 5, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [22, 5, 8, -1]},
    {"Taxon": "Portuguese", "Segments": [22, 5, 8, -1]},
    {"Taxon": "Catalan", "Segments": [22, 5, -1, -1]},
    {"Taxon": "Friulian", "Segments": [22, 43, -1, -1]},
    {"Taxon": "Romanian", "Segments": [22, 5, -1, -1]}
  ]
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{
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    {"Taxon": "Italian", "Segments": [22, 18, 4, 5, 16, 6]},
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    {"Taxon": "Portuguese", "Segments": [22, 14, -1, 5, 8, -1]},
    {"Taxon": "Catalan", "Segments": [22, 14, 4, 5, -1, -1]},
    {"Taxon": "Walloon", "Segments": [22, 3, 4, 6, -1, -1]},
    {"Taxon": "Friulian", "Segments": [22, 18, 4, 43, -1, -1]}
  ]
},
{
  "Name": "ToHold-Primary", "Data": [
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    {"Taxon": "French", "Segments": [28, 26, 4, 3, 20, -1]},
    {"Taxon": "Spanish", "Segments": [28, 6, 4, 6, 8, -1]},
    {"Taxon": "Italian", "Segments": [28, 6, 4, 6, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 6, -1, -1, 8, -1]},
    {"Taxon": "Portuguese", "Segments": [28, 6, -1, -1, 8, -1]},
    {"Taxon": "Catalan", "Segments": [28, 26, 4, 3, -1, -1]},
    {"Taxon": "Walloon", "Segments": [28, 3, 4, 3, -1, -1]},
    {"Taxon": "Friulian", "Segments": [28, 3, 23, 3, -1, -1]},
    {"Taxon": "Romanian", "Segments": [42, 3, 4, 6, -1, -1]}
  ]
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{
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    {"Taxon": "French", "Segments": [6, -1, -1, 37, 20, 53, -1, 22, -1, 20, -1]},
    {"Taxon": "Spanish", "Segments": [6, 41, 36, 37, 8, 6, 2, -1, 3, 8, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 36, 37, 16, 12, 2, -1, 6, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, -1, 39, 37, 16, 26, 2, -1, 6, 8, -1]},
    {"Taxon": "Portuguese", "Segments": [33, -1, 39, 37, 16, 33, 2, -1, 6, 8, -1]},
    {"Taxon": "Catalan", "Segments": [26, -1, 36, 37, 8, 6, 2, -1, 26, -1, -1]},
    {"Taxon": "Friulian", "Segments": [6, -1, 36, 37, 16, 3, 2, -1, 3, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 36, 41, -1, 16, 6, 2, -1, 6, -1, -1]}
  ]
}
```

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```
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{"Name": "ToSqueeze-Serare", "Data": [
  {"Taxon": "Latin", "Segments": [36, -1, 6, -1, 16, 5, 16, 6]},
  {"Taxon": "French", "Segments": [36, -1, 6, -1, 20, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [45, -1, 6, -1, 16, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [36, -1, 6, 16, 16, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, -1, 3, -1, 20, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [36, -1, 33, -1, 20, 5, 8, -1]},
  {"Taxon": "Walloon", "Segments": [36, -1, 12, -1, 16, 6, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 13, 6, -1, 16, 43, -1, -1]}
]},
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  {"Taxon": "Spanish", "Segments": [5, -1, 37, -1, -1, 8, 6, 28, 5, 8, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [10, -1, 37, 3, -1, 8, -1, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [10, -1, 37, 33, -1, 8, -1, 28, 5, 8, -1]}
]},
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  {"Taxon": "Spanish", "Segments": [6, 36, 28, 8, 6, 23, -1, 3, 8, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 28, 16, 3, 4, 68, 6, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 39, 28, 16, 30, -1, 74, 3, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [33, 39, 28, 16, 30, -1, 74, 3, 8, -1]},
  {"Taxon": "Catalan", "Segments": [26, 36, 28, 8, 12, 23, -1, 26, -1, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 36, 28, 16, 53, 4, 22, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 28, 16, 12, 4, 68, 21, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 36, 28, 16, 33, 4, 68, 6, -1, -1]}
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  {"Taxon": "French", "Segments": [0, 20, 72, 6, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [0, 8, 6, 61, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [0, 16, 6, 61, 5, 16, 6]},
  {"Taxon": "Catalan", "Segments": [0, 8, 26, 61, 5, -1, -1]},
  {"Taxon": "Walloon", "Segments": [0, 16, 63, 3, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [0, 16, 6, -1, 43, -1, -1]},
  {"Taxon": "Romanian", "Segments": [0, 16, 6, 41, 5, -1, -1]}
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  {"Taxon": "Portuguese", "Segments": [33, 39, 0, 8, 33, 61, 5, 8]}
]},
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  {"Taxon": "French", "Segments": [0, 20, 24, -1, 28, 6, -1, -1]},
  {"Taxon": "Italian", "Segments": [0, 16, 6, 28, 28, 5, 16, 6]},
  {"Taxon": "Walloon", "Segments": [0, 16, 24, -1, 28, 6, -1, -1]}
]},
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  {"Taxon": "Catalan", "Segments": [0, 8, 26, 36, 5, -1]}
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  {"Taxon": "French", "Segments": [15, 5, 51, 6, -1, -1]},
  {"Taxon": "Spanish", "Segments": [15, 5, 7, 5, 8, -1]},
  {"Taxon": "Italian", "Segments": [15, 5, 51, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [15, 10, 51, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [15, 10, 51, 5, 8, -1]},
  {"Taxon": "Catalan", "Segments": [19, 26, 7, 5, -1, -1]}
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```
{
  "Taxon": "Walloon",      "Segments": [15, 5, 51, 6, -1, -1]},
  "Taxon": "Friulian",    "Segments": [15, 5, 51, 43, -1, -1]},
  "Taxon": "Romanian",    "Segments": [15, 5, -1, -1, -1, -1]}
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  {"Taxon": "Catalan",    "Segments": [26, -1, 36, 28, 26, 16, 74, 3, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [-1, -1, 39, 28, 6, 16, 68, 6, -1, -1]}
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  {"Taxon": "Italian",    "Segments": [5, 39, 39, -1, 14, 61, -1, 5, 16, 6]},
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  {"Taxon": "Catalan",    "Segments": [26, -1, 39, -1, 14, 61, -1, 5, -1, -1]},
  {"Taxon": "Walloon",    "Segments": [-1, -1, 36, -1, 60, -1, -1, 6, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [-1, -1, 36, -1, 14, -1, 13, 43, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [14, -1, 36, -1, -1, 41, -1, 5, -1, -1]}
}],
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  {"Taxon": "PortugueseBrazil", "Segments": [15, 30, -1, 37, -1, -1, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [15, 30, -1, 37, -1, -1, 5, 8, -1]}
}],
{"Name": "ToPull-Primary", "Data": [
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  {"Taxon": "French",     "Segments": [28, 3, 20, 6, -1, -1]},
  {"Taxon": "Spanish",    "Segments": [28, 3, 8, 5, 8, -1]},
  {"Taxon": "Italian",    "Segments": [28, 3, 16, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [32, 3, 8, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [28, 3, 8, 5, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [28, 3, 8, 5, -1, -1]},
  {"Taxon": "Walloon",    "Segments": [28, 3, 16, 6, -1, -1]},
  {"Taxon": "Friulian",   "Segments": [28, 3, 16, 43, -1, -1]}
}],
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  {"Taxon": "Italian",    "Segments": [28, 16, 5, 16, -1, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 8, 5, 38, 6, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [28, 8, 10, 38, 6, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [28, 8, 12, 48, -1, 8, 26]},
  {"Taxon": "Friulian",   "Segments": [28, 16, 44, -1, -1, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [28, 16, 5, 68, 6, -1, -1]}
}],
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  {"Taxon": "Catalan",    "Segments": [26, 2, 37, 12, 23, -1, 26, -1, -1]},
  {"Taxon": "Romanian",   "Segments": [33, 2, 37, 3, 4, 68, 6, -1, -1]}
}],
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  {"Taxon": "Spanish",    "Segments": [-1, 6, -1, 32, 5, 8, -1]},
  {"Taxon": "Italian",    "Segments": [68, 6, 28, 28, 5, 16, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [74, 46, -1, 28, 5, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [74, 47, -1, 28, 5, 8, -1]},
  {"Taxon": "Catalan",    "Segments": [74, 3, -1, 28, 5, -1, -1]},
```

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```
{
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}],
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      "Segments": [15, 29, -1, 36, -1, 6, -1, -1]},
    {
      "Taxon": "Spanish",
      "Segments": [15, 5, 4, 45, -1, 5, 8, -1]},
    {
      "Taxon": "Italian",
      "Segments": [15, 5, 4, 32, -1, 5, 16, 6]},
    {
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      "Segments": [15, 31, -1, 36, -1, 5, 8, -1]},
    {
      "Taxon": "Portuguese",
      "Segments": [15, 31, -1, 36, -1, 5, 8, -1]},
    {
      "Taxon": "Catalan",
      "Segments": [19, 26, 4, 36, -1, 5, -1, -1]},
    {
      "Taxon": "Walloon",
      "Segments": [15, 29, -1, 36, -1, 3, -1, -1]},
    {
      "Taxon": "Friulian",
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  ]
},
{
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    {
      "Taxon": "Italian",
      "Segments": [15, 6, 61, 5, 16, 6]},
    {
      "Taxon": "Catalan",
      "Segments": [19, 3, 61, 5, -1, -1]},
    {
      "Taxon": "Walloon",
      "Segments": [15, 63, 3, -1, -1, -1]},
    {
      "Taxon": "Friulian",
      "Segments": [15, 6, -1, 43, -1, -1]},
    {
      "Taxon": "Romanian",
      "Segments": [15, 6, 61, 5, -1, -1]}
  ]
},
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      "Segments": [5, -1, 28, 5, 8, -1]},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [10, -1, 28, 5, 8, -1]},
    {
      "Taxon": "Portuguese",
      "Segments": [10, -1, 28, 5, 8, -1]}
  ]
},
{
  "Name": "ToSew-Primary", "Data": [
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    {
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      "Segments": [41, 14, -1, 22, -1, -1, -1, 20, -1]},
    {
      "Taxon": "Spanish",
      "Segments": [41, 18, -1, -1, 36, -1, 6, 8, -1]},
    {
      "Taxon": "Italian",
      "Segments": [41, 14, -1, -1, 32, -1, 3, 16, 6]},
    {
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      "Segments": [41, 14, -1, -1, 38, -1, 6, 8, -1]},
    {
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      "Segments": [41, 14, -1, -1, 38, -1, 6, 8, -1]},
    {
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      "Segments": [41, 14, -1, -1, 38, -1, 3, -1, -1]},
    {
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      "Segments": [41, 69, -1, -1, 38, -1, -1, -1, -1]},
    {
      "Taxon": "Friulian",
      "Segments": [41, 14, -1, -1, 38, -1, 3, -1, -1]},
    {
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      "Segments": [41, 27, -1, -1, 36, -1, 6, -1, -1]}
  ]
},
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  "Name": "ToCount-Primary", "Data": [
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    {
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      "Segments": [41, 49, -1, -1, -1, 28, 6, -1, -1]},
    {
      "Taxon": "Spanish",
      "Segments": [41, 18, 4, -1, -1, 28, 5, 8, -1]},
    {
      "Taxon": "Italian",
      "Segments": [41, 18, 4, -1, -1, 28, 5, 16, 6]},
    {
      "Taxon": "PortugueseBrazil",
      "Segments": [41, 25, -1, -1, -1, 28, 5, 8, -1]},
    {
      "Taxon": "Portuguese",
      "Segments": [41, 25, -1, -1, -1, 28, 5, 8, -1]},
    {
      "Taxon": "Catalan",
      "Segments": [41, 14, 2, -1, -1, 28, 5, -1, -1]},
    {
      "Taxon": "Walloon",
      "Segments": [41, 18, -1, -1, -1, 28, 6, -1, -1]},
    {
      "Taxon": "Friulian",
      "Segments": [41, 18, 4, -1, -1, 28, 43, -1, -1]}
  ]
},
{
  "Name": "ToCount-Numerare", "Data": [
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      "Segments": [4, 14, 2, -1, 6, 16, 43, 16, 6]},
    {
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      "Segments": [4, 49, -1, 7, -1, 20, 6, -1, -1]},
    {
      "Taxon": "Italian",
      "Segments": [4, 18, 51, -1, 6, 16, 5, 16, 6]},
    {
      "Taxon": "Catalan",
      "Segments": [4, 14, 2, -1, 6, 8, 5, -1, -1]},
    {
      "Taxon": "Friulian",
      "Segments": [4, 14, 2, -1, 6, 16, 43, -1, -1]},
    {
      "Taxon": "Romanian",
      "Segments": [4, 14, 2, -1, 26, 16, 5, -1, -1]}
  ]
},
{
  "Name": "ToSay-Primary", "Data": [
    {
      "Taxon": "Latin",
      "Segments": [22, 21, 41, 6, 16, 6]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```

{"Taxon": "French",           "Segments": [22, 3, -1, -1, 20, -1]},
{"Taxon": "Spanish",         "Segments": [22, 6, 45, 3, 8, -1]},
{"Taxon": "Italian",         "Segments": [22, 3, -1, -1, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [22, 3, 38, 6, 8, -1]},
{"Taxon": "Portuguese",      "Segments": [22, 3, 38, 6, 8, -1]},
{"Taxon": "Catalan",         "Segments": [22, 3, -1, -1, -1, -1]},
{"Taxon": "Walloon",         "Segments": [22, 3, -1, -1, 16, -1]},
{"Taxon": "Friulian",        "Segments": [22, 21, -1, -1, -1, -1]},
{"Taxon": "Romanian",        "Segments": [38, 3, 32, 6, -1, -1]}
}},
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{"Taxon": "Italian",         "Segments": [6, -1, 36, 37, 18, 16, -1, 16, 6]},
{"Taxon": "Romanian",        "Segments": [-1, -1, 36, 37, 14, 4, 6, -1, -1]}
]},
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{"Taxon": "French",          "Segments": [39, 29, -1, 28, 6, -1, -1]},
{"Taxon": "Spanish",         "Segments": [41, 5, 4, 28, 5, 8, -1]},
{"Taxon": "Italian",         "Segments": [41, 5, 4, 28, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 31, -1, 28, 5, 8, -1]},
{"Taxon": "Portuguese",      "Segments": [41, 31, -1, 28, 5, 8, -1]},
{"Taxon": "Catalan",         "Segments": [41, 26, 4, 28, 5, -1, -1]},
{"Taxon": "Walloon",         "Segments": [32, 29, -1, 28, 6, -1, -1]},
{"Taxon": "Friulian",        "Segments": [55, 5, 4, 28, 43, -1, -1]},
{"Taxon": "Romanian",        "Segments": [41, 33, 4, 28, 5, -1, -1]}
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{"Taxon": "Latin",           "Segments": [15, 58, 22, 6, 16, 6]},
{"Taxon": "Spanish",         "Segments": [15, 14, 22, 3, 8, -1]}
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{"Taxon": "Latin",           "Segments": [13, 18, -1, 41, 43, 16, 6]},
{"Taxon": "French",          "Segments": [74, -1, 48, -1, 6, -1, -1]},
{"Taxon": "Spanish",         "Segments": [17, 14, -1, 61, 5, 8, -1]},
{"Taxon": "Italian",         "Segments": [68, 18, -1, 41, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [74, 18, -1, 61, 5, 8, -1]},
{"Taxon": "Portuguese",      "Segments": [74, 14, -1, 61, 5, 8, -1]},
{"Taxon": "Catalan",         "Segments": [74, 14, -1, 61, 5, -1, -1]},
{"Taxon": "Walloon",         "Segments": [68, 14, 48, -1, 6, -1, -1]},
{"Taxon": "Friulian",        "Segments": [68, 14, 13, -1, 43, -1, -1]},
{"Taxon": "Romanian",        "Segments": [74, 14, -1, 41, 5, -1, -1]}
]},
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{"Taxon": "French",          "Segments": [41, 14, 15, 6, -1, -1]},
{"Taxon": "Spanish",         "Segments": [41, 18, 15, 5, 8, -1]},
{"Taxon": "Italian",         "Segments": [41, 18, 15, 5, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 18, -1, 5, 8, -1]},
{"Taxon": "Portuguese",      "Segments": [41, 14, -1, 5, 8, -1]},
{"Taxon": "Catalan",         "Segments": [41, 14, 78, 5, -1, -1]},
{"Taxon": "Walloon",         "Segments": [41, 24, 15, 6, -1, -1]},
{"Taxon": "Friulian",        "Segments": [41, 18, 15, 43, -1, -1]}
]},
{"Name": "ToFlow-Excurrere", "Data": [
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{"Taxon": "Spanish",         "Segments": [6, -1, 36, 41, 14, -1, 16, 3, 8, -1]},
{"Taxon": "Italian",         "Segments": [-1, -1, 36, 41, 18, 16, 16, 6, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [3, -1, 39, 41, 18, -1, 20, 6, 8, -1]},
{"Taxon": "Portuguese",      "Segments": [3, -1, 39, 41, 24, -1, 20, 33, 8, -1]},
{"Taxon": "Catalan",         "Segments": [26, -1, 36, 41, 18, -1, 16, 26, -1, -1]},

```


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```

    {"Taxon": "Friulian",          "Segments": [-1, -1, 36, 41, 24, -1, 16, 21, -1, -1]},
    {"Taxon": "Romanian",         "Segments": [-1, -1, 36, 41, 14, 16, 68, 6, -1, -1]}
  ]},
  {"Name": "ToFlow-Currere", "Data": [
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    {"Taxon": "French",          "Segments": [41, 14, -1, 20, 3, 20, -1]},
    {"Taxon": "Spanish",         "Segments": [41, 18, -1, 16, 6, 8, -1]},
    {"Taxon": "Italian",         "Segments": [41, 18, 16, 16, 6, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 18, -1, 20, 6, 8, -1]},
    {"Taxon": "Portuguese",      "Segments": [41, 14, -1, 20, 6, 8, -1]},
    {"Taxon": "Catalan",         "Segments": [41, 18, -1, 16, 26, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [41, 24, -1, 16, 3, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [41, 24, -1, 16, 3, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [41, 14, 16, 68, 6, -1, -1]}
  ]},
  {"Name": "ToFreeze-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [61, 6, 15, 43, 16, 6]},
    {"Taxon": "French",          "Segments": [74, 26, 15, 6, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [-1, 6, 15, 5, 8, -1]},
    {"Taxon": "Italian",         "Segments": [68, 6, 15, 5, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [74, 6, 15, 5, 8, -1]},
    {"Taxon": "Portuguese",      "Segments": [74, 33, 15, 5, 8, -1]},
    {"Taxon": "Catalan",         "Segments": [74, 26, 15, 5, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [68, 5, 15, 6, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [68, 6, 15, 43, -1, -1]}
  ]},
  {"Name": "ToFreeze-Glaciare", "Data": [
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    {"Taxon": "Italian",         "Segments": [61, 13, 5, 28, 32, 13, 5, 16, 6]},
    {"Taxon": "Catalan",         "Segments": [61, 15, 26, -1, 36, -1, 5, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [61, 15, 5, -1, 32, -1, 43, -1, -1]}
  ]},
  {"Name": "ToFreeze-Inglaciare", "Data": [
    {"Taxon": "Latin",           "Segments": [3, 4, 61, 15, 5, 41, 3, 43, 16, 6]},
    {"Taxon": "Romanian",        "Segments": [33, 4, 61, -1, 6, 42, -1, 5, -1, -1]}
  ]},
  {"Name": "ToSwell-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [3, 4, 0, 15, 43, 16, 6]},
    {"Taxon": "French",          "Segments": [29, -1, 0, 15, 6, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [3, 4, 32, -1, 5, 8, -1]},
    {"Taxon": "Italian",         "Segments": [6, 4, 0, 3, 5, 16, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 39, -1, 5, 8, -1]},
    {"Taxon": "Portuguese",      "Segments": [30, -1, 39, -1, 5, 8, -1]},
    {"Taxon": "Catalan",         "Segments": [3, 2, 0, 15, 5, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [9, -1, 0, 15, 6, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [6, 4, 0, 15, 43, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [14, 2, 0, 15, 5, -1, -1]}
  ]},
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    {"Taxon": "Latin",           "Segments": [-1, 41, -1, 18, 4, 0, 15, 43, 16, 6]},
    {"Taxon": "Italian",         "Segments": [-1, 61, -1, 18, 4, 0, 13, 5, 16, 6]},
    {"Taxon": "Walloon",         "Segments": [-1, 61, -1, 49, -1, 0, 15, 6, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [38, 61, 15, 18, 4, 0, -1, 43, -1, -1]}
  ]},
  {"Name": "ToSwell-Intumescere", "Data": [
    {"Taxon": "Latin",           "Segments": [3, 4, 28, 14, 2, 1, 36, 41, 6, 16, 6]},
    {"Taxon": "Spanish",         "Segments": [6, 4, 28, 14, 2, 6, 45, -1, 6, 8, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 28, 14, 2, 6, 39, 36, 6, 8, -1]},
    {"Taxon": "Portuguese",      "Segments": [30, -1, 28, 14, 2, 33, 39, 36, 6, 8, -1]}
  ]},
  {"Name": "ToSwell-Crescere", "Data": [

```

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```

{"Taxon": "Latin", "Segments": [41, 16, -1, 1, 36, 41, 6, 16, 6]},
{"Taxon": "French", "Segments": [41, 20, 48, 5, -1, 28, -1, 20, -1]},
{"Taxon": "Spanish", "Segments": [41, 8, -1, 6, 45, -1, 6, 8, -1]},
{"Taxon": "Italian", "Segments": [41, 16, -1, 6, 39, 39, 6, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 8, -1, 6, 39, 36, 6, 8, -1]},
{"Taxon": "Portuguese", "Segments": [41, 8, -1, 33, 39, 36, 6, 8, -1]},
{"Taxon": "Catalan", "Segments": [41, 8, -1, 6, -1, 39, 26, -1, -1]},
{"Taxon": "Walloon", "Segments": [41, 16, -1, 12, 50, -1, -1, -1, -1]},
{"Taxon": "Friulian", "Segments": [41, 16, -1, 12, 36, -1, 3, -1, -1]},
{"Taxon": "Romanian", "Segments": [41, 16, -1, 6, 39, 28, 6, -1, -1]}
]},
{"Name": "ToBurn-Cremare", "Data": [
{"Taxon": "Latin", "Segments": [41, 16, 6, 2, 43, 16, 6]},
{"Taxon": "Spanish", "Segments": [41, -1, 6, 2, 5, 8, -1]},
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{"Taxon": "Portuguese", "Segments": [41, -1, 47, 2, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [41, 16, 26, 2, 5, -1, -1]}
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{"Taxon": "Latin", "Segments": [0, 15, 5, 2, 2, 43, 16, 6]},
{"Taxon": "French", "Segments": [0, 15, 5, -1, 2, 6, -1, -1]},
{"Taxon": "Catalan", "Segments": [0, 15, 26, -1, 2, 5, -1, -1]}
]},
{"Name": "ToBurn-Ardere", "Data": [
{"Taxon": "Latin", "Segments": [5, 16, 22, 1, 16, 6]},
{"Taxon": "French", "Segments": [5, 20, 22, -1, 20, -1]},
{"Taxon": "Spanish", "Segments": [5, 8, 22, 6, 8, -1]},
{"Taxon": "Italian", "Segments": [5, 16, 22, 6, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [5, 20, 22, 6, 8, -1]},
{"Taxon": "Portuguese", "Segments": [10, 8, 22, 6, 8, -1]},
{"Taxon": "Friulian", "Segments": [5, 16, 22, 3, -1, -1]},
{"Taxon": "Romanian", "Segments": [5, 16, 22, 6, -1, -1]}
]},
{"Name": "ToBurn-Incendere", "Data": [
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{"Taxon": "Spanish", "Segments": [6, 4, 45, 6, 4, 22, -1, 6, 8, -1]},
{"Taxon": "Italian", "Segments": [3, 4, 32, 12, 4, 22, -1, 6, 16, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [30, -1, 36, 9, -1, 22, 3, 5, 8, -1]},
{"Taxon": "Portuguese", "Segments": [30, -1, 36, 9, -1, 22, 3, 5, 8, -1]},
{"Taxon": "Catalan", "Segments": [26, 4, 36, 6, 4, 22, -1, -1, 8, 26]},
{"Taxon": "Romanian", "Segments": [33, 4, 32, 3, 4, 68, 6, -1, -1, -1]}
]},
{"Name": "ToBurn-Ustulare", "Data": [
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{"Taxon": "Italian", "Segments": [14, 36, 28, 18, 15, 5, 16, 6]},
{"Taxon": "Romanian", "Segments": [14, 36, 28, 14, 16, 5, -1, -1]}
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{"Taxon": "Italian", "Segments": [18, 23, 23, 3, -1]},
{"Taxon": "Friulian", "Segments": [40, -1, 23, 3, -1]}
]},
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{"Taxon": "Latin", "Segments": [28, 40, -1, 28, 14, 2]},
{"Taxon": "French", "Segments": [28, 14, -1, -1, -1, -1]},
{"Taxon": "Spanish", "Segments": [28, 18, -1, 22, 18, -1]},
{"Taxon": "Italian", "Segments": [28, 14, 28, 28, 18, -1]},
{"Taxon": "PortugueseBrazil", "Segments": [28, 18, -1, 22, 14, -1]},
{"Taxon": "Portuguese", "Segments": [28, 18, -1, 22, 14, -1]},
{"Taxon": "Catalan", "Segments": [28, 18, -1, 28, -1, -1]},
{"Taxon": "Walloon", "Segments": [28, 24, -1, -1, -1, -1]}
]
```

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```

    {"Taxon": "Friulian",      "Segments": [22, 14, -1, 28, -1, -1]},
    {"Taxon": "Romanian",     "Segments": [28, 18, -1, 28, -1, -1]}
  ]},
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    {"Taxon": "Spanish",      "Segments": [2, 14, -1, 32, 18, -1]},
    {"Taxon": "Italian",      "Segments": [2, 18, 15, 28, 18, -1]},
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    {"Taxon": "Portuguese",   "Segments": [2, 79, -1, 28, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [2, 18, 15, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [2, 18, 15, 28, -1, -1]},
    {"Taxon": "Romanian",     "Segments": [2, 14, 15, 28, -1, -1]}
  ]},
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    {"Taxon": "Spanish",      "Segments": [28, 5, 4, 28, 18, -1]},
    {"Taxon": "Italian",      "Segments": [28, 5, 4, 28, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 31, -1, 28, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [28, 31, -1, 28, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [28, 5, 4, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [28, 5, 4, 28, -1, -1]}
  ]},
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    {"Taxon": "Spanish",      "Segments": [5, 15, 61, 14, 4, 18]},
    {"Taxon": "Italian",      "Segments": [5, 15, 41, 14, 4, 18]},
    {"Taxon": "PortugueseBrazil", "Segments": [5, 48, 61, 77, -1, -1]},
    {"Taxon": "Portuguese",   "Segments": [5, 15, 61, 77, -1, -1]},
    {"Taxon": "Catalan",      "Segments": [26, 15, 61, 14, -1, -1]},
    {"Taxon": "Walloon",      "Segments": [5, 15, 41, 24, 4, -1]}
  ]},
  {"Name": "Few-Primary", "Data": [
    {"Taxon": "Latin",        "Segments": [37, 52, 41, 14, 2]},
    {"Taxon": "French",       "Segments": [37, 69, -1, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [37, 18, 41, 18, -1]},
    {"Taxon": "Italian",      "Segments": [37, 24, 41, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 18, 41, 14, -1]},
    {"Taxon": "Portuguese",   "Segments": [37, 18, 41, 14, -1]},
    {"Taxon": "Catalan",      "Segments": [37, 24, 41, -1, -1]},
    {"Taxon": "Walloon",      "Segments": [37, 18, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [37, 40, 41, -1, -1]}
  ]},
  {"Name": "Other-Primary", "Data": [
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    {"Taxon": "French",       "Segments": [18, -1, 28, -1, 20, -1, -1]},
    {"Taxon": "Spanish",      "Segments": [18, -1, 28, -1, 8, 18, -1]},
    {"Taxon": "Italian",      "Segments": [5, 15, 28, -1, 16, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 28, -1, 8, 14, -1, -1]},
    {"Taxon": "Portuguese",   "Segments": [18, 28, -1, 8, 14, -1, -1]},
    {"Taxon": "Catalan",      "Segments": [5, 15, 28, -1, 8, 26, -1]},
    {"Taxon": "Walloon",      "Segments": [18, -1, 28, -1, -1, -1, -1]},
    {"Taxon": "Friulian",     "Segments": [5, 15, 28, -1, 16, 3, -1]},
    {"Taxon": "Romanian",     "Segments": [5, 15, 28, -1, -1, -1, -1]}
  ]},
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    {"Taxon": "Latin",        "Segments": [5, 15, 3, 14, 2]},
    {"Taxon": "PortugueseBrazil", "Segments": [5, 48, -1, -1, -1]},
    {"Taxon": "Portuguese",   "Segments": [5, 15, -1, -1, -1]}
  ]},
  {"Name": "Big-Primary", "Data": [

```

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```

    {"Taxon": "Latin",          "Segments": [2, 5, 61, 4, 14, 2]},
    {"Taxon": "Friulian",      "Segments": [2, 5, -1, 23, -1, -1]}
  ]},
  {"Name": "Big-Grandem", "Data": [
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    {"Taxon": "French",         "Segments": [61, 20, 29, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [61, 8, 5, 4, 22, 6, -1]},
    {"Taxon": "Italian",        "Segments": [61, 16, 5, 4, 22, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [61, 8, 31, -1, 22, 3, -1]},
    {"Taxon": "Portuguese",     "Segments": [61, 8, 31, -1, 22, 33, -1]},
    {"Taxon": "Catalan",        "Segments": [61, 8, 5, 4, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [61, 16, 29, -1, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [61, 16, 5, 4, 28, -1, -1]}
  ]},
  {"Name": "Big-Majjorem", "Data": [
    {"Taxon": "Latin",          "Segments": [2, 44, 13, 40, 16, 6, 2]},
    {"Taxon": "Friulian",      "Segments": [2, 5, -1, 13, 40, 16, -1]},
    {"Taxon": "Romanian",      "Segments": [2, 5, -1, -1, -1, 16, 6]}
  ]},
  {"Name": "Long-Longum", "Data": [
    {"Taxon": "Latin",          "Segments": [15, -1, 18, 4, 61, 14, 2]},
    {"Taxon": "French",         "Segments": [15, -1, 49, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [15, 48, 6, 4, 61, 18, -1]},
    {"Taxon": "Italian",        "Segments": [15, -1, 14, 4, 61, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, -1, 25, -1, 61, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [15, -1, 25, -1, 61, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [19, -1, 18, 4, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [15, -1, 49, -1, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [15, -1, 14, 4, 41, -1, -1]},
    {"Taxon": "Romanian",      "Segments": [15, -1, 14, 4, 61, -1, -1]}
  ]},
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    {"Taxon": "French",         "Segments": [15, 5, 20, 74, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [15, 5, 8, 61, 18, -1]},
    {"Taxon": "Italian",        "Segments": [15, 5, 16, 61, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, 5, 8, 61, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [15, 5, 8, 61, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [19, 5, 8, 41, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [15, 5, -1, 68, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [15, 5, 16, 41, -1, -1]},
    {"Taxon": "Romanian",      "Segments": [15, 5, 16, 61, -1, -1]}
  ]},
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    {"Taxon": "Latin",          "Segments": [15, 43, 28, 14, 2]},
    {"Taxon": "French",         "Segments": [15, 6, -1, -1, -1]},
    {"Taxon": "Italian",        "Segments": [15, 5, 28, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, 5, 28, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [15, 5, 28, 14, -1]},
    {"Taxon": "Romanian",      "Segments": [15, 5, 28, -1, -1]}
  ]},
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    {"Taxon": "Latin",          "Segments": [5, 2, 37, 15, 14, 2]},
    {"Taxon": "French",         "Segments": [29, -1, 37, 15, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [5, 4, 32, -1, 18, -1]},
    {"Taxon": "Italian",        "Segments": [5, 2, 37, 13, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [31, -1, 39, -1, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [31, -1, 39, -1, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [5, 2, 37, 15, 26, -1]},
    {"Taxon": "Walloon",        "Segments": [29, -1, 37, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [5, 2, 37, 15, 3, -1]}
  ]}

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}},
{"Name": "Thick-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [41, 16, 5, 36, 36, 14, 2]},
  {"Taxon": "French", "Segments": [61, 20, 57, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [61, 8, 5, -1, 36, 18, -1]},
  {"Taxon": "Italian", "Segments": [61, 16, 5, 36, 36, 18, -1]},
  {"Taxon": "Portuguese", "Segments": [61, 8, 5, -1, 39, 14, -1]},
  {"Taxon": "Catalan", "Segments": [61, 8, 5, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [41, 16, 57, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [61, 16, 5, 36, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [61, 16, 5, 36, -1, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [6, -1, 37, 12, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [6, 36, 37, 6, 36, 18, -1, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 37, 6, 36, 36, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 36, 37, 12, -1, 36, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [33, 39, 37, 6, -1, 36, 14, -1]},
  {"Taxon": "Catalan", "Segments": [26, 36, 37, 12, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 36, 37, 12, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 37, 12, 36, -1, -1, -1]}
]},
{"Name": "Thick-Gurdum", "Data": [
  {"Taxon": "Latin", "Segments": [61, 14, 16, 22, 14, 2]},
  {"Taxon": "Spanish", "Segments": [61, 18, 8, 22, 18, -1]}
]},
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  {"Taxon": "French", "Segments": [61, 20, 18, -1, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [61, 16, 24, -1, 36, 36, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [61, 8, 18, -1, -1, 36, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [61, 8, 18, -1, -1, 36, 14, -1]},
  {"Taxon": "Catalan", "Segments": [61, 8, 24, -1, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [61, 8, 24, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [61, 16, 48, 12, 36, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [61, 16, 18, -1, 36, -1, -1, -1]}
]},
{"Name": "Heavy-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [61, 16, 5, -1, -1, 48, 6, 2]},
  {"Taxon": "French", "Segments": [61, 20, 3, 13, 12, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [61, 8, 5, -1, -1, 7, 6, -1]},
  {"Taxon": "Italian", "Segments": [61, 16, 12, -1, -1, 51, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [61, 8, 5, -1, -1, 51, 3, -1]},
  {"Taxon": "Portuguese", "Segments": [61, 8, 5, -1, -1, 51, 33, -1]},
  {"Taxon": "Catalan", "Segments": [61, 8, 6, -1, -1, 48, -1, -1]},
  {"Taxon": "Walloon", "Segments": [61, 16, 57, -1, -1, 51, -1, -1]},
  {"Taxon": "Friulian", "Segments": [61, 16, 1, -1, -1, 0, -1, -1]},
  {"Taxon": "Romanian", "Segments": [61, 16, 6, -1, -1, 48, -1, -1]}
]},
{"Name": "Heavy-Lurdus", "Data": [
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  {"Taxon": "French", "Segments": [15, 14, 20, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [15, 18, 16, 22, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [15, 6, 8, 22, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [15, 6, 8, 22, 14, -1]},
  {"Taxon": "Walloon", "Segments": [15, 14, 16, -1, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [37, 26, -1, 28, 3, -1, -1, -1]},

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{
  {"Taxon": "Catalan", "Segments": [37, 26, -1, 28, 3, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [37, 3, -1, 28, 3, -1, -1, -1]}
}],
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  {"Taxon": "Friulian", "Segments": [37, 3, 32, 14, 15, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [41, 14, 20, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [41, 18, 8, 28, 18, -1]},
  {"Taxon": "Italian", "Segments": [41, 18, 16, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, 14, 8, 28, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [41, 14, 8, 28, 14, -1]},
  {"Taxon": "Catalan", "Segments": [41, 14, 8, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [41, 14, 16, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [41, 14, 16, 28, -1, -1]}
]},
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  {"Taxon": "Latin", "Segments": [7, 16, 6, 48, 6, 2]},
  {"Taxon": "French", "Segments": [7, 20, 12, 0, -1, -1]},
  {"Taxon": "Italian", "Segments": [7, 16, 12, 51, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, 8, 12, 51, 3, -1]},
  {"Taxon": "Portuguese", "Segments": [7, 8, 12, 51, 33, -1]},
  {"Taxon": "Catalan", "Segments": [7, 8, 6, 48, -1, -1]},
  {"Taxon": "Walloon", "Segments": [7, 16, 12, 0, -1, -1]}
]},
{"Name": "Narrow-Primary", "Data": [
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  {"Taxon": "Spanish", "Segments": [5, 4, 61, 18, 36, 28, 18, -1]},
  {"Taxon": "Romanian", "Segments": [33, 81, 61, 14, 36, 28, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [6, -1, 28, 20, 48, 5, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [6, 36, 28, 8, -1, 6, -1, -1, 32, 18, -1]},
  {"Taxon": "Italian", "Segments": [-1, 36, 28, 16, -1, 6, -1, 28, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 36, 28, 8, -1, 46, -1, -1, 28, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [33, 39, 28, 8, -1, 47, -1, -1, 28, 14, -1]},
  {"Taxon": "Catalan", "Segments": [26, 36, 28, 8, -1, 12, -1, -1, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 36, 28, 16, -1, 82, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 36, 28, 16, -1, 12, -1, -1, 28, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 36, 28, 16, -1, 33, 2, -1, 28, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [2, 26, 4, 60, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [2, 6, 4, 14, -1, 22, 18, -1]},
  {"Taxon": "Italian", "Segments": [2, 3, 4, 14, -1, 28, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [2, 3, -1, 14, -1, 22, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [2, 3, -1, 14, -1, 22, 14, -1]},
  {"Taxon": "Catalan", "Segments": [2, 26, 4, 14, -1, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [2, 11, 4, 14, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [2, 3, 4, 58, -1, 28, -1, -1]},
  {"Taxon": "Romanian", "Segments": [2, 26, 4, 14, 4, 28, -1, -1]}
]},
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  {"Taxon": "French", "Segments": [22, 14, -1, -1, 74, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [22, 6, 15, -1, 61, 5, 22, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [22, 6, 48, -1, 61, 5, 22, 14, -1]}
]}
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    {"Taxon": "Portuguese",      "Segments": [22, 12, 15, -1, 61, 5, 22, 14, -1]}
  ]},
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    {"Taxon": "French",         "Segments": [39, 18, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [41, 5, 15, -1, 22, 18, -1]},
    {"Taxon": "Italian",        "Segments": [41, 5, 15, -1, 22, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, 5, 48, -1, 22, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [41, 5, 15, -1, 22, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [41, 5, 15, -1, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [32, 18, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [55, 5, 15, -1, 28, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [41, 5, 15, -1, 22, -1, -1]}
  ]},
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    {"Taxon": "French",         "Segments": [0, 20, 48, 5, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [0, 8, -1, 3, -1, -1, -1, 18, -1]},
    {"Taxon": "Italian",        "Segments": [0, 16, -1, 6, 22, -1, 22, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [0, 8, -1, 3, -1, -1, -1, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [0, 8, -1, 3, -1, -1, -1, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [0, 8, -1, 12, -1, -1, 28, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [0, 71, -1, 69, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [0, 16, -1, 1, -1, -1, 28, -1, -1]}
  ]},
  {"Name": "Cold-Recens", "Data": [
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    {"Taxon": "Spanish",        "Segments": [16, 6, 45, 13, 6, 4, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 6, 36, -1, 9, -1, 28, 3, -1]},
    {"Taxon": "Portuguese",     "Segments": [20, 33, 36, -1, 9, -1, 28, 3, -1]},
    {"Taxon": "Friulian",       "Segments": [16, 6, 38, -1, 3, 4, 28, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [16, 6, 32, -1, 6, -1, -1, -1, -1]}
  ]},
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    {"Taxon": "French",         "Segments": [37, 15, 53, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [-1, 65, 6, 4, 18, -1]},
    {"Taxon": "Italian",        "Segments": [37, 13, 12, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [39, -1, 47, -1, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [39, -1, 47, -1, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [37, 15, 12, -1, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [37, 15, 53, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [37, 15, 12, 4, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [37, 15, 3, 4, -1, -1]}
  ]},
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    {"Taxon": "Spanish",        "Segments": [4, 48, 6, 7, 18, -1]},
    {"Taxon": "Italian",        "Segments": [4, 48, 24, 51, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, -1, 18, 51, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [4, -1, 18, 51, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [4, -1, 24, 48, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [4, -1, 14, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [23, -1, 58, 0, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [4, -1, 18, 48, -1, -1]}
  ]},
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    {"Taxon": "French",         "Segments": [4, 14, 51, 18, -1, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [4, 18, 7, 3, -1, 65, 18, -1]},

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{
  "Taxon": "Italian",      "Segments": [4, 18, 51, 12, 15, 15, 18, -1]},
  "Taxon": "Catalan",     "Segments": [4, 14, 7, 6, -1, 19, 18, -1]},
  "Taxon": "Walloon",     "Segments": [4, 24, 51, 1, -1, -1, -1, -1]},
  "Taxon": "Friulian",    "Segments": [4, 18, 51, 12, 15, -1, -1, -1]}
}],
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    {"Taxon": "French",     "Segments": [4, 14, 51, 12, -1, 15, -1]},
    {"Taxon": "Spanish",    "Segments": [4, 18, 7, 3, -1, 65, 5]},
    {"Taxon": "Italian",    "Segments": [4, 18, 51, 12, 15, 15, 5]},
    {"Taxon": "Catalan",    "Segments": [4, 14, 7, 6, -1, 19, 26]},
    {"Taxon": "Walloon",    "Segments": [4, 24, 51, 12, -1, 15, -1]},
    {"Taxon": "Romanian",   "Segments": [4, 14, 13, -1, -1, -1, 5]}
  ]
},
{
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    {"Taxon": "French",     "Segments": [51, 13, 69, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [7, 13, 6, 17, 18, -1, -1, -1]},
    {"Taxon": "Italian",    "Segments": [51, -1, 12, 41, -1, 41, 13, 18]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 12, -1, -1, 19, 14, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 10, -1, -1, 19, 14, -1]},
    {"Taxon": "Catalan",    "Segments": [7, -1, 6, -1, -1, 19, -1, -1]},
    {"Taxon": "Walloon",    "Segments": [51, 3, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [51, 13, 6, -1, -1, 15, 3, -1]},
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  ]
},
{
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    {"Taxon": "French",     "Segments": [7, -1, 49, -1, -1, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [7, 48, 6, 4, 18, -1]},
    {"Taxon": "Italian",    "Segments": [7, 48, 24, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 25, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 25, -1, -1, -1, -1]},
    {"Taxon": "Catalan",    "Segments": [7, -1, 24, -1, -1, -1, -1]},
    {"Taxon": "Walloon",    "Segments": [7, -1, 49, -1, -1, -1, -1]},
    {"Taxon": "Friulian",   "Segments": [7, -1, 24, 4, -1, -1, -1]},
    {"Taxon": "Romanian",   "Segments": [7, -1, 14, 4, -1, -1, -1]}
  ]
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    {"Taxon": "French",     "Segments": [2, 5, 15, -1, -1]},
    {"Taxon": "Spanish",    "Segments": [2, 5, 15, 18, -1]},
    {"Taxon": "Italian",    "Segments": [2, 5, 15, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [2, 5, 48, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [2, 5, 48, -1, -1]},
    {"Taxon": "Catalan",    "Segments": [2, 5, 15, -1, -1]},
    {"Taxon": "Walloon",    "Segments": [2, 57, 51, 5, -1]},
    {"Taxon": "Friulian",   "Segments": [2, 43, 15, -1, -1]}
  ]
},
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    {"Taxon": "Catalan",    "Segments": [37, 14, 22, 8, 3, 28, -1, -1]},
    {"Taxon": "Romanian",   "Segments": [37, 14, 28, 16, 6, 22, -1, -1]}
  ]
},
{
  "Name": "Rotten-Putrem", "Data": [
    {"Taxon": "Latin",      "Segments": [37, 14, 28, 16, 6, 2]},
    {"Taxon": "Spanish",    "Segments": [37, 18, 22, 8, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 18, 22, 8, 3, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 18, 22, 8, 33, -1]}
  ]
},
]
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Name": "Dirty-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [-1, 36, 37, 14, 16, 55, 14, 2] },
    { "Taxon": "Italian", "Segments": [-1, 36, 37, 24, 16, 41, 18, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [3, 36, 37, 14, 8, 41, 14, -1] },
    { "Taxon": "Portuguese", "Segments": [3, 39, 37, 14, 8, 41, 14, -1] },
    { "Taxon": "Friulian", "Segments": [-1, 36, 37, 24, 16, 41, -1, -1] },
    { "Taxon": "Romanian", "Segments": [-1, 36, 37, 14, 16, 41, -1, -1] }
  ]
},
{
  "Name": "Straight-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [22, 21, 16, -1, 1, 41, 28, 14, 2] },
    { "Taxon": "French", "Segments": [22, -1, 20, 48, 5, -1, -1, -1, -1] },
    { "Taxon": "Italian", "Segments": [22, -1, 16, -1, 3, 28, 28, 18, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [68, 3, 8, -1, 46, -1, 28, 14, -1] },
    { "Taxon": "Portuguese", "Segments": [22, 3, 8, -1, 47, -1, 28, 14, -1] },
    { "Taxon": "Catalan", "Segments": [22, -1, 8, -1, 12, -1, 28, -1, -1] },
    { "Taxon": "Walloon", "Segments": [22, -1, 16, -1, 69, -1, -1, -1, -1] },
    { "Taxon": "Friulian", "Segments": [22, -1, 16, -1, 12, -1, 28, -1, -1] },
    { "Taxon": "Romanian", "Segments": [22, -1, 16, -1, 6, 37, 28, -1, -1] }
  ]
},
{
  "Name": "Round-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [16, 18, 28, 14, 4, 22, 14, 2] },
    { "Taxon": "French", "Segments": [20, 49, -1, -1, -1, -1, -1, -1] },
    { "Taxon": "Spanish", "Segments": [16, 6, 22, 18, 4, 22, 18, -1] },
    { "Taxon": "Italian", "Segments": [16, 18, 28, 18, 4, 22, 18, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [20, 6, 22, 25, -1, 22, 14, -1] },
    { "Taxon": "Portuguese", "Segments": [20, 33, 22, 25, -1, 22, 14, -1] },
    { "Taxon": "Catalan", "Segments": [16, 26, 22, 18, -1, -1, -1, -1] },
    { "Taxon": "Walloon", "Segments": [16, 49, -1, -1, -1, -1, -1, -1] },
    { "Taxon": "Friulian", "Segments": [28, 5, 16, 24, 4, 28, -1, -1] },
    { "Taxon": "Romanian", "Segments": [16, 26, 28, 14, 4, 22, -1, -1] }
  ]
},
{
  "Name": "SharpAsAKnife-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [5, 41, 58, 28, 14, 2] },
    { "Taxon": "French", "Segments": [6, 61, 60, -1, -1, -1] },
    { "Taxon": "Spanish", "Segments": [5, 61, 14, 22, 18, -1] },
    { "Taxon": "Italian", "Segments": [5, 41, 14, 28, 18, -1] },
    { "Taxon": "Portuguese", "Segments": [10, 61, 14, 22, 14, -1] },
    { "Taxon": "Catalan", "Segments": [26, 61, 14, 28, -1, -1] },
    { "Taxon": "Walloon", "Segments": [5, 61, 60, -1, -1, -1] },
    { "Taxon": "Friulian", "Segments": [5, 41, 58, 28, -1, -1] }
  ]
},
{
  "Name": "Smooth-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [36, 14, 43, 48, 6, 2] },
    { "Taxon": "Italian", "Segments": [36, 18, 5, 51, 6, -1] },
    { "Taxon": "Catalan", "Segments": [36, 14, 5, 48, -1, -1] },
    { "Taxon": "Friulian", "Segments": [36, 18, 43, 0, -1, -1] }
  ]
},
{
  "Name": "Smooth-Nitidus", "Data": [
    { "Taxon": "Latin", "Segments": [4, 3, 28, 3, 22, 14, 2] },
    { "Taxon": "French", "Segments": [4, 12, 28, -1, -1, -1, -1] },
    { "Taxon": "Italian", "Segments": [4, 6, 28, -1, 28, 18, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [4, 12, 22, 3, -1, 14, -1] },
    { "Taxon": "Portuguese", "Segments": [4, 12, 22, 3, -1, 14, -1] },
    { "Taxon": "Catalan", "Segments": [4, 12, 28, -1, -1, -1, -1] },
    { "Taxon": "Walloon", "Segments": [4, 12, 28, -1, -1, -1, -1] },
    { "Taxon": "Friulian", "Segments": [4, 12, 28, -1, -1, -1, -1] },
    { "Taxon": "Romanian", "Segments": [4, 6, 28, 6, 22, -1, -1] }
  ]
},
{
  "Name": "Wet-Primary", "Data": [
    { "Taxon": "Latin", "Segments": [58, 2, 3, 22, 14, 2] },
    { "Taxon": "Walloon", "Segments": [60, 2, -1, -1, -1, -1] },
  ]
}
```

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    {"Taxon": "Friulian",          "Segments": [14, 2, 3, 28, -1, -1]},
    {"Taxon": "Romanian",         "Segments": [14, 2, 6, 22, -1, -1]}
  ]},
  {"Name": "Wet-Udus", "Data": [
    {"Taxon": "Latin",           "Segments": [58, 22, 14, 2]},
    {"Taxon": "Romanian",        "Segments": [14, 22, -1, -1]}
  ]},
  {"Name": "Dry-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [36, 3, 41, 41, 14, 2]},
    {"Taxon": "French",          "Segments": [36, 12, -1, 41, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [36, 6, -1, 41, 18, -1]},
    {"Taxon": "Italian",         "Segments": [36, 6, 41, 41, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 6, -1, 41, 14, -1]},
    {"Taxon": "Portuguese",      "Segments": [36, 6, -1, 41, 14, -1]},
    {"Taxon": "Catalan",         "Segments": [36, 12, 41, -1, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [36, 12, -1, 32, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [36, 12, -1, 41, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [36, 6, 41, -1, -1, -1]}
  ]},
  {"Name": "Near-Primary", "Data": [
    {"Taxon": "Latin",           "Segments": [5, 22, 37, 16, 18, 37, 16, 6]},
    {"Taxon": "Catalan",         "Segments": [26, -1, 37, 8, 24, 37, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [5, -1, 37, 16, 27, 37, -1, 6]}
  ]},
  {"Name": "Near-Pressus", "Data": [
    {"Taxon": "Latin",           "Segments": [37, 16, 6, 36, 36, 14, 2]},
    {"Taxon": "French",          "Segments": [37, 20, 12, -1, -1, -1, -1]},
    {"Taxon": "Italian",         "Segments": [37, 16, 12, 36, 36, 18, -1]},
    {"Taxon": "Walloon",         "Segments": [37, 16, 12, -1, -1, -1, -1]}
  ]},
  {"Name": "Near-Vicinus", "Data": [
    {"Taxon": "Latin",           "Segments": [48, -1, 21, 41, 21, 4, 14, 2]},
    {"Taxon": "French",          "Segments": [51, 48, 5, 38, 53, -1, -1, -1]},
    {"Taxon": "Spanish",         "Segments": [7, -1, 6, 45, 3, 4, 18, -1]},
    {"Taxon": "Italian",         "Segments": [51, -1, 3, 32, 3, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 3, 38, 3, 23, 14, -1]},
    {"Taxon": "Portuguese",      "Segments": [51, -1, 33, 38, 3, 23, 14, -1]},
    {"Taxon": "Catalan",         "Segments": [7, -1, 26, -1, 3, -1, -1, -1]},
    {"Taxon": "Walloon",         "Segments": [51, -1, 12, 50, 53, -1, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [51, -1, 3, 32, 3, 4, -1, -1]},
    {"Taxon": "Romanian",        "Segments": [51, -1, 6, 32, 3, 4, -1, -1]}
  ]},
  {"Name": "Near-Circa", "Data": [
    {"Taxon": "Latin",           "Segments": [41, 3, 16, 41, 5]},
    {"Taxon": "Spanish",         "Segments": [45, 6, 8, 41, 5]}
  ]},
  {"Name": "Far-Primary", "Data": [
    {"Taxon": "French",          "Segments": [15, 48, 53, -1, 28, 53, -1, -1]},
    {"Taxon": "Italian",         "Segments": [15, -1, 18, 4, 28, 5, 4, 18]},
    {"Taxon": "Catalan",         "Segments": [19, -1, 14, 4, 28, 5, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [15, -1, 18, 4, 28, 5, 4, -1]}
  ]},
  {"Name": "Right-Dextrem", "Data": [
    {"Taxon": "Latin",           "Segments": [22, -1, 6, 41, 36, 28, 16, 14, 2]},
    {"Taxon": "Spanish",         "Segments": [22, 13, 6, -1, 36, 28, 8, 18, -1]},
    {"Taxon": "Italian",         "Segments": [22, -1, 12, -1, 36, 28, 16, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [22, -1, 12, -1, 36, 28, 8, 14, -1]},
    {"Taxon": "Portuguese",      "Segments": [22, -1, 6, -1, 39, 28, 8, 14, -1]},
    {"Taxon": "Catalan",         "Segments": [22, -1, 6, -1, 36, 28, 8, 26, -1]},
    {"Taxon": "Walloon",         "Segments": [22, 13, 12, -1, 36, 28, 16, -1, -1]},
    {"Taxon": "Friulian",        "Segments": [22, 13, 6, -1, 36, 28, 16, 3, -1]}
  ]}

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}},
{"Name": "Left-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [36, 3, 4, -1, 3, 36, 28, 16, 14, 2]},
  {"Taxon": "French", "Segments": [36, 26, 4, -1, 12, 36, 28, 20, -1, -1]},
  {"Taxon": "Spanish", "Segments": [36, 3, 4, 13, 6, 36, 28, 8, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, -1, -1, -1, 12, 39, 28, 8, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [36, -1, -1, -1, 6, 39, 28, 8, 14, -1]},
  {"Taxon": "Walloon", "Segments": [36, 12, 23, 12, 36, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [36, 3, 23, -1, 6, 36, 28, 16, 3, -1]}
]},
{"Name": "Red-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [16, 14, 36, 36, 14, 2]},
  {"Taxon": "French", "Segments": [20, 14, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [16, 18, -1, 17, 18, -1]},
  {"Taxon": "Italian", "Segments": [16, 18, 36, 36, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 18, -1, 39, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 18, -1, 39, 14, -1]},
  {"Taxon": "Catalan", "Segments": [16, 18, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [16, 24, 68, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [16, 24, -1, 36, -1, -1]},
  {"Taxon": "Romanian", "Segments": [16, 18, -1, 39, 14, -1]}
]},
{"Name": "Red-Vermiculus", "Data": [
  {"Taxon": "Latin", "Segments": [51, 6, 16, 2, 3, 41, 14, 15, 14, 2]},
  {"Taxon": "French", "Segments": [51, 12, 20, 2, 72, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [7, 6, 8, 2, 6, 17, 18, -1, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 20, 2, 6, -1, -1, 19, 14, -1]},
  {"Taxon": "Portuguese", "Segments": [51, 33, 8, 2, 10, -1, -1, 19, 14, -1]},
  {"Taxon": "Catalan", "Segments": [7, 26, 8, 2, 12, -1, -1, 19, -1, -1]}
]},
{"Name": "Red-Rubeus", "Data": [
  {"Taxon": "Latin", "Segments": [16, 14, -1, 7, 6, 14, 2]},
  {"Taxon": "French", "Segments": [20, 14, -1, 74, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [16, 14, -1, 7, 13, 18, -1]},
  {"Taxon": "Italian", "Segments": [16, 24, 7, 7, 13, 18, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [16, 14, -1, 7, 3, 18, -1]},
  {"Taxon": "Portuguese", "Segments": [16, 14, -1, 7, 3, 18, -1]},
  {"Taxon": "Catalan", "Segments": [16, 14, -1, 68, 6, -1, -1]},
  {"Taxon": "Walloon", "Segments": [16, 24, -1, 68, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [16, 66, -1, 7, -1, -1, -1]}
]},
{"Name": "Green-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [48, 3, 16, 3, 22, 6, 2]},
  {"Taxon": "French", "Segments": [51, 12, 20, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [7, 6, 8, -1, 22, 6, -1]},
  {"Taxon": "Italian", "Segments": [51, 6, 16, -1, 22, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 8, -1, 22, 3, -1]},
  {"Taxon": "Portuguese", "Segments": [51, 6, 8, -1, 22, 33, -1]},
  {"Taxon": "Catalan", "Segments": [7, 12, 8, -1, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [51, 6, 16, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [51, 12, 16, -1, 28, -1, -1]},
  {"Taxon": "Romanian", "Segments": [51, 6, 16, -1, 22, 6, -1]}
]},
{"Name": "Yellow-Primary", "Data": [
  {"Taxon": "Latin", "Segments": [61, 5, 15, 7, 3, 4, 14, 2]},
  {"Taxon": "French", "Segments": [74, 18, -1, -1, -1, 4, -1, -1]},
  {"Taxon": "Walloon", "Segments": [68, 12, -1, -1, -1, 4, -1, -1]},
  {"Taxon": "Romanian", "Segments": [61, 5, 15, 7, 6, 4, -1, -1]}
]},
{"Name": "Yellow-Amarellus", "Data": [
  {"Taxon": "Latin", "Segments": [5, 2, 5, 16, 6, 15, 15, 14, 2]},

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    {"Taxon": "Spanish",          "Segments": [5, 2, 5, 8, 3, -1, 65, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 2, 5, 8, 12, -1, 15, 14, -1]},
    {"Taxon": "Portuguese",       "Segments": [10, 2, 10, 8, 6, -1, 15, 14, -1]}
  ]},
  {"Name": "White-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [5, 15, 7, 14, 2]},
    {"Taxon": "Spanish",        "Segments": [5, 15, 7, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [5, 48, 51, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [5, 15, 51, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [5, 15, 37, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [5, 15, 7, -1, -1]}
  ]},
  {"Name": "Black-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [4, -1, 3, 61, 16, 14, 2]},
    {"Taxon": "French",         "Segments": [4, 48, 5, -1, 20, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [4, -1, 6, 83, 8, 18, -1]},
    {"Taxon": "Italian",        "Segments": [4, -1, 6, -1, 16, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, -1, 6, 61, 8, 14, -1]},
    {"Taxon": "Portuguese",     "Segments": [4, -1, 6, 61, 8, 14, -1]},
    {"Taxon": "Catalan",        "Segments": [4, -1, 12, 61, 8, 26, -1]},
    {"Taxon": "Walloon",        "Segments": [4, -1, 69, -1, 16, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [4, -1, 6, -1, 16, 3, -1]},
    {"Taxon": "Romanian",       "Segments": [4, -1, 6, 61, 16, 14, -1]}
  ]},
  {"Name": "One-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [58, 4, 14, 2]},
    {"Taxon": "French",         "Segments": [80, -1, -1, -1]},
    {"Taxon": "Spanish",        "Segments": [14, 4, 18, -1]},
    {"Taxon": "Italian",        "Segments": [14, 4, 18, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [77, -1, -1, -1]},
    {"Taxon": "Portuguese",     "Segments": [77, -1, -1, -1]},
    {"Taxon": "Catalan",        "Segments": [14, 4, -1, -1]},
    {"Taxon": "Walloon",        "Segments": [49, -1, -1, -1]},
    {"Taxon": "Friulian",       "Segments": [14, 4, -1, -1]},
    {"Taxon": "Romanian",       "Segments": [14, 4, 14, -1]}
  ]},
  {"Name": "Two-Duos", "Data": [
    {"Taxon": "Latin",          "Segments": [22, 14, 40, 36]},
    {"Taxon": "French",         "Segments": [22, -1, 69, -1]},
    {"Taxon": "Spanish",        "Segments": [22, -1, 18, 36]},
    {"Taxon": "PortugueseBrazil", "Segments": [22, -1, 66, 36]},
    {"Taxon": "Portuguese",     "Segments": [22, -1, 66, 39]},
    {"Taxon": "Catalan",        "Segments": [22, -1, 18, 36]},
    {"Taxon": "Walloon",        "Segments": [22, -1, 82, 36]},
    {"Taxon": "Friulian",       "Segments": [22, -1, 66, -1]},
    {"Taxon": "Romanian",       "Segments": [22, -1, 66, -1]}
  ]},
  {"Name": "Two-Duae", "Data": [
    {"Taxon": "Latin",          "Segments": [22, 14, -1, 44]},
    {"Taxon": "Italian",        "Segments": [22, 14, -1, 6]},
    {"Taxon": "Romanian",       "Segments": [22, 18, 48, 26]}
  ]},
  {"Name": "Two-Duas", "Data": [
    {"Taxon": "Latin",          "Segments": [22, 14, 5, 36]},
    {"Taxon": "PortugueseBrazil", "Segments": [22, 14, 10, 36]},
    {"Taxon": "Portuguese",     "Segments": [22, 14, 10, 39]}
  ]},
  {"Name": "Three-Primary", "Data": [
    {"Taxon": "Latin",          "Segments": [28, 16, -1, 1, 36]},
    {"Taxon": "French",         "Segments": [28, 20, 48, 57, -1]},
    {"Taxon": "Spanish",        "Segments": [28, 8, -1, 6, 36]},

```


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{"Taxon": "Italian", "Segments": [28, 16, -1, 6, -1]},
{"Taxon": "PortugueseBrazil", "Segments": [28, 8, -1, 6, 36]},
{"Taxon": "Portuguese", "Segments": [28, 8, -1, 6, 39]},
{"Taxon": "Catalan", "Segments": [28, 16, -1, 12, 36]},
{"Taxon": "Walloon", "Segments": [28, 16, -1, 69, 36]},
{"Taxon": "Friulian", "Segments": [28, 16, -1, 1, -1]},
{"Taxon": "Romanian", "Segments": [28, 16, -1, 46, -1]}
]},
{"Name": "Four-Primary", "Data": [
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{"Taxon": "French", "Segments": [41, -1, 5, -1, 28, -1, -1, 20, -1]},
{"Taxon": "Spanish", "Segments": [41, 48, 5, -1, 28, -1, -1, 8, 18]},
{"Taxon": "Italian", "Segments": [41, 48, 5, 28, 28, -1, -1, 16, 18]},
{"Taxon": "PortugueseBrazil", "Segments": [41, 48, 5, -1, 28, -1, -1, 8, 14]},
{"Taxon": "Portuguese", "Segments": [41, 48, 5, -1, 28, -1, -1, 8, 14]},
{"Taxon": "Catalan", "Segments": [41, 48, 5, -1, 28, -1, -1, 8, 26]},
{"Taxon": "Walloon", "Segments": [41, 48, 5, -1, 28, -1, -1, -1, -1]},
{"Taxon": "Friulian", "Segments": [41, 48, 5, -1, 28, -1, -1, 16, 3]},
{"Taxon": "Romanian", "Segments": [37, -1, 5, -1, 28, -1, -1, 16, 14]}
]},
{"Name": "Five-Primary", "Data": [
{"Taxon": "Latin", "Segments": [76, 21, 4, 76, -1, 6]},
{"Taxon": "French", "Segments": [36, 53, -1, 41, -1, -1]},
{"Taxon": "Spanish", "Segments": [45, 3, 4, 41, -1, 18]},
{"Taxon": "Italian", "Segments": [32, 3, 81, 41, 48, 6]},
{"Taxon": "PortugueseBrazil", "Segments": [36, 30, -1, 41, -1, 14]},
{"Taxon": "Portuguese", "Segments": [36, 30, -1, 41, -1, 14]},
{"Taxon": "Catalan", "Segments": [36, 3, 4, 41, -1, -1]},
{"Taxon": "Walloon", "Segments": [36, 53, -1, 41, -1, -1]},
{"Taxon": "Friulian", "Segments": [32, 3, 4, 41, -1, -1]},
{"Taxon": "Romanian", "Segments": [32, 3, 4, 84, -1, -1]}
]},
{"Name": "Here-Primary", "Data": [
{"Taxon": "Latin", "Segments": [6, 41, 41, 14, 2, 50, 21, 41]},
{"Taxon": "Spanish", "Segments": [5, -1, 41, -1, -1, -1, 3, -1]},
{"Taxon": "Italian", "Segments": [-1, -1, 41, 48, -1, -1, 3, -1]},
{"Taxon": "PortugueseBrazil", "Segments": [5, -1, 41, -1, -1, -1, 3, -1]},
{"Taxon": "Portuguese", "Segments": [10, -1, 41, -1, -1, -1, 3, -1]},
{"Taxon": "Catalan", "Segments": [26, -1, 41, -1, -1, -1, 3, -1]},
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]},
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{"Taxon": "PortugueseBrazil", "Segments": [5, 3]},
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]

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Appendix 1 - Tongue Twister Configuration

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  {"Taxon": "Friulian", "Segments": [41, 48, 3, -1]}
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  {"Taxon": "Friulian", "Segments": [41, 48, 5, 4, 22, -1]},
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}},
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  {"Taxon": "Catalan", "Segments": [41, 24, 2, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [41, 18, 2, -1, -1, -1]},
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  {"Taxon": "Italian", "Segments": [5, -1]},
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  {"Taxon": "Walloon", "Segments": [5, -1]},
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}},
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```

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  { "Taxon": "Romanian",   "Segments": [41, 26, -1]}  
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