

Appendix 1 - Tongue Twister Configuration

```
{
  "Tree": "(Latin,(Romanian,(((Walloon,French),(((Portuguese,PortugueseBrazil),Spanish),Catalan)),(
  Friulian,Italian))))";
  "NumberOfStates": 95,
  "McmcSettings": {
    "FileOutput": "/Users/johnh/Desktop/Indelly/out/test_custom",
    "OnlyCompleteWords": "No",
    "Model": "Custom",
    "CalcMarginal": "No",
    "UseEigenSystem": "No",
    "NumCycles": 100000,
    "PrintFreq": 10,
    "SampleFreq": 100,
    "TreeLengthPriorVal": 0.15
  },
  "Taxa": ["Latin", "French", "Spanish", "Italian", "PortugueseBrazil", "Portuguese", "Catalan", "
  Walloon", "Friulian", "Romanian"],
  "PriorFrequencies": [0.027305,0.025515,0.009400,0.007162,0.009848,0.000895,0.026858,0.041182,
  0.036705,0.015667,0.000448,0.006714,0.040286,0.034915,0.029991,0.039391,0.016562,0.000448,0.012086,
  0.028201,0.030439,0.012981,0.002686,0.020591,0.019696,0.009400,0.042972,0.038496,0.011638,0.000895,
  0.001343,0.016562,0.030439,0.019696,0.008505,0.002238,0.002238,0.014324,0.018800,0.000448,0.025067,
  0.000448,0.003581,0.000895,0.008057,0.000448,0.000448,0.007162,0.038496,0.013429,0.002238,0.040286,
  0.000448,0.013429,0.000448,0.000448,0.000448,0.004924,0.001791,0.000448,0.000448,0.004924,0.003581,
  0.000448,0.004924,0.006267,0.000448,0.004476,0.000448,0.000895,0.000448,0.004476,0.000895,0.004476,
  0.002686,0.028201,0.000895,0.002238,0.000448,0.001343,0.000448,0.001343,0.007610,0.005372,0.003133,
  0.006267,0.000448,0.005372,0.000895,0.000448,0.007162,0.004476,0.000448,0.000448,0.006267],
  "PartitionSets": [{"Name": "O and U", "Set": [15, 72]},{ "Name": "Nasal Vowel", "Set": [41, 42, 43
  , 44, 45, 54, 61, 62, 63, 64, 76, 82, 88, 89, 90, 93]},{ "Name": "Vowel", "Set": [0, 2, 4, 6, 7, 9,
  11, 17, 21, 22, 25, 27, 29, 30, 31, 37, 39, 47, 53, 56, 57, 59, 60, 66, 70, 73, 78, 79, 80, 84, 86
  , 94]},{ "Name": "Nasal Consonant", "Set": [13, 26, 38, 75, 92]},{ "Name": "Non Syllabic Sonorant", "
  Set": [8, 12, 32, 33]},{ "Name": "Consonant", "Set": [1, 3, 5, 10, 14, 16, 18, 19, 20, 23, 24, 28,
  34, 35, 36, 40, 46, 48, 49, 50, 51, 52, 55, 58, 65, 67, 68, 69, 71, 74, 77, 81, 83, 85, 87, 91]}],
  "Words": [
    { "Name": "I", "Data": [
      { "Taxon": "Latin", "Segments": [-1, 0, 1, 2]},
      { "Taxon": "French", "Segments": [3, 4, -1, -1]},
      { "Taxon": "Spanish", "Segments": [5, -1, -1, 6]},
      { "Taxon": "Italian", "Segments": [7, -1, -1, 6]},
      { "Taxon": "PortugueseBrazil", "Segments": [-1, 0, -1, 8]},
      { "Taxon": "Portuguese", "Segments": [-1, 0, -1, 8]},
      { "Taxon": "Catalan", "Segments": [3, -1, -1, 9]},
      { "Taxon": "Walloon", "Segments": [10, 11, -1, -1]},
      { "Taxon": "Friulian", "Segments": [12, -1, -1, 6]},
      { "Taxon": "Romanian", "Segments": [12, 0, -1, 8]}
    ]},
    { "Name": "We", "Data": [
      { "Taxon": "Latin", "Segments": [13, 2, -1, 14, -1]},
      { "Taxon": "French", "Segments": [13, 15, -1, -1, -1]},
      { "Taxon": "Spanish", "Segments": [13, 6, -1, 14, -1]},
      { "Taxon": "Italian", "Segments": [13, 2, 7, -1, -1]},
      { "Taxon": "PortugueseBrazil", "Segments": [13, 9, 12, -1, 14]},
      { "Taxon": "Portuguese", "Segments": [13, 9, -1, 16, -1]},
      { "Taxon": "Walloon", "Segments": [13, 6, -1, -1, -1]},
      { "Taxon": "Friulian", "Segments": [13, 2, -1, -1, -1]},
      { "Taxon": "Romanian", "Segments": [13, 17, -1, -1, -1]}
    ]}
  ]
}
```

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```
{
  "Name": "YouPlural", "Data": [
    {"Taxon": "Latin", "Segments": [8, 2, -1, 14]},
    {"Taxon": "French", "Segments": [18, 15, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 6, -1, 14]},
    {"Taxon": "Italian", "Segments": [18, 2, 7, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 9, 12, 14]},
    {"Taxon": "Portuguese", "Segments": [18, 6, -1, 16]},
    {"Taxon": "Catalan", "Segments": [19, 15, -1, 14]},
    {"Taxon": "Walloon", "Segments": [18, 6, -1, 14]},
    {"Taxon": "Friulian", "Segments": [18, 2, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 17, -1, -1]}
  ]},
{
  "Name": "YouSingular", "Data": [
    {"Taxon": "Latin", "Segments": [20, 21]},
    {"Taxon": "French", "Segments": [20, 22]},
    {"Taxon": "Spanish", "Segments": [20, 15]},
    {"Taxon": "Italian", "Segments": [20, 15]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 15]},
    {"Taxon": "Portuguese", "Segments": [20, 15]},
    {"Taxon": "Catalan", "Segments": [20, 15]},
    {"Taxon": "Walloon", "Segments": [20, 22]},
    {"Taxon": "Friulian", "Segments": [20, 15]},
    {"Taxon": "Romanian", "Segments": [20, 15]}
  ]},
{
  "Name": "YouSingular-VostramMercedem", "Data": [
    {"Taxon": "Spanish", "Segments": [-1, 15, 14, 20, 0, 23]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 6, 14, -1, 0, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 9, 14, -1, 0, -1]},
    {"Taxon": "Catalan", "Segments": [18, 6, 14, 20, 0, -1]}
  ]},
{
  "Name": "Woman", "Data": [
    {"Taxon": "Latin", "Segments": [24, 25, -1, 26, 7, -1, 13, -1, 27]},
    {"Taxon": "French", "Segments": [24, 27, -1, 26, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, -1, 26, -1, 19, 28, -1, 27]},
    {"Taxon": "Italian", "Segments": [24, 0, 26, 26, 7, -1, 13, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 0, -1, 26, 0, -1, -1, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [24, 0, -1, 26, 12, -1, -1, -1, 29]},
    {"Taxon": "Catalan", "Segments": [24, 0, -1, 26, -1, 19, 28, -1, 27]},
    {"Taxon": "Walloon", "Segments": [24, 30, -1, 26, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 31, -1, 26, 7, -1, 13, -1, 31]},
    {"Taxon": "Romanian", "Segments": [24, 0, -1, 26, 0, -1, -1, 12, 0]}
  ]},
{
  "Name": "Woman-Mulier", "Data": [
    {"Taxon": "Latin", "Segments": [26, 15, 32, 7, 0, 33, 0, 26]},
    {"Taxon": "Spanish", "Segments": [26, 15, 34, -1, 0, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 35, 35, 0, -1, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 15, 35, -1, 0, 36, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 15, 35, -1, 0, 28, -1, -1]},
    {"Taxon": "Catalan", "Segments": [26, 15, 35, -1, 0, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 15, -1, -1, 37, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 15, -1, 12, 0, 33, 0, -1]}
  ]},
{
  "Name": "Woman-Domina", "Data": [
    {"Taxon": "Latin", "Segments": [23, 6, 26, 7, 13, 27]},
    {"Taxon": "French", "Segments": [23, 27, 26, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 6, -1, -1, 38, 27]}
  ]}
}
```

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```
{
  "Taxon": "Italian", "Segments": [23, 9, 13, -1, 13, 27]},
  "Taxon": "PortugueseBrazil", "Segments": [23, 6, -1, -1, 13, 29]},
  "Taxon": "Portuguese", "Segments": [23, 6, -1, -1, 13, 29]},
  "Taxon": "Catalan", "Segments": [23, 9, -1, -1, 13, 4]},
  "Taxon": "Walloon", "Segments": [23, 30, 26, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [23, 9, -1, -1, 13, 0]},
  "Taxon": "Romanian", "Segments": [23, 39, 26, -1, 13, 4]}
}],
{
  "Name": "ManHumanBeing", "Data": [
    {"Taxon": "Latin", "Segments": [40, 6, 26, 7, -1, 13, 0, 26]},
    {"Taxon": "French", "Segments": [-1, 9, 26, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [6, 26, -1, 19, 28, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 26, 41, -1, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [9, 26, 41, -1, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [-1, 9, 26, 4, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 9, 26, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 9, 26, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 6, 26, -1, -1, -1, -1, -1]}
  ]
},
{
  "Name": "ManHumanBeing-Homo", "Data": [
    {"Taxon": "Latin", "Segments": [40, -1, 6, 26, 2]},
    {"Taxon": "French", "Segments": [-1, -1, 42, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 8, 9, 26, 6]}
  ]
},
{
  "Name": "Child", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 24, 27, 13, 20, 0, 26]},
    {"Taxon": "French", "Segments": [43, -1, 24, 43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [7, 13, 24, 27, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 24, 27, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 24, 45, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [44, -1, 24, 45, -1, 20, 47, -1]},
    {"Taxon": "Walloon", "Segments": [31, -1, 24, 43, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Child-Ninnus", "Data": [
    {"Taxon": "Spanish", "Segments": [13, 7, 38, 6]},
    {"Taxon": "Italian", "Segments": [13, 7, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 0, 13, 41]},
    {"Taxon": "Portuguese", "Segments": [13, 0, 13, 41]},
    {"Taxon": "Catalan", "Segments": [13, 0, 13, -1]}
  ]
},
{
  "Name": "Wife", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 6, 13, 14, 27]},
    {"Taxon": "French", "Segments": [0, -1, 48, 15, -1, 49, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 6, -1, 14, 27]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 9, -1, 49, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 6, -1, 49, 27]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 48, 6, -1, 49, 29]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 9, -1, 49, 4]}
  ]
},
{
  "Name": "Wife-Mulier", "Data": [
    {"Taxon": "Latin", "Segments": [26, 15, 32, 7, 0, 33, -1]},
    {"Taxon": "Spanish", "Segments": [26, 15, 34, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 35, 35, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 15, 35, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 15, 35, -1, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 15, 35, -1, 0, -1, -1]},
  ]
}
```

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```
{
  "Taxon": "Friulian", "Segments": [26, 15, -1, 37, 33, -1, -1]},
  "Taxon": "Romanian", "Segments": [26, 15, -1, 12, 0, 33, 0]}
}],
{
  "Name": "Husband", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 33, 37, 20, 15, 14]},
    {"Taxon": "French", "Segments": [26, 27, 36, 7, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 28, 7, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 33, 7, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 27, 28, 7, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 29, 28, 7, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, 28, 7, 20, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, 33, 37, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 4, 33, 7, 20, -1, -1]}
  ]
},
{
  "Name": "Husband-Sponsus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 6, 13, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 48, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 6, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 9, -1, 49, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 6, -1, 49, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 48, 6, -1, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 9, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 2, -1, 14, -1, -1]}
  ]
},
{
  "Name": "Husband-Socius", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 51, 7, 15, 14]},
    {"Taxon": "Italian", "Segments": [14, 9, 46, -1, 6, -1]},
    {"Taxon": "Romanian", "Segments": [14, 6, 52, -1, -1, -1]}
  ]
},
{
  "Name": "Mother", "Data": [
    {"Taxon": "Latin", "Segments": [26, 53, 20, 33, 0, 26]},
    {"Taxon": "French", "Segments": [26, 0, -1, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 50, 28, 0, -1]},
    {"Taxon": "Italian", "Segments": [26, 53, 23, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 54, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 54, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, -1, 28, 4, -1]},
    {"Taxon": "Walloon", "Segments": [26, 0, -1, 55, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, -1, 33, 7, -1]}
  ]
},
{
  "Name": "Father", "Data": [
    {"Taxon": "Latin", "Segments": [48, 27, 20, 33, 0]},
    {"Taxon": "French", "Segments": [48, 0, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 50, 28, 0]},
    {"Taxon": "Italian", "Segments": [48, 53, 23, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 56, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 56, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [48, 57, -1, 33, -1]},
    {"Taxon": "Friulian", "Segments": [48, 27, -1, 33, 7]}
  ]
},
{
  "Name": "Father-Tata", "Data": [
    {"Taxon": "Latin", "Segments": [20, 27, 20, 27]},
    {"Taxon": "Spanish", "Segments": [20, 27, 20, 27]},
    {"Taxon": "Italian", "Segments": [20, 27, 20, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 27, 20, 27]},
  ]
}
```

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```
{
  "Taxon": "Portuguese", "Segments": [20, 27, 20, 27]},
  {"Taxon": "Romanian", "Segments": [20, 27, 20, 4]}
}],
{"Name": "Animal", "Data": [
  {"Taxon": "Latin", "Segments": [27, 13, 7, 26, 27, 32, 7, 27]},
  {"Taxon": "French", "Segments": [6, -1, -1, 26, 27, -1, 12, -1]},
  {"Taxon": "Spanish", "Segments": [27, 32, 7, 26, 27, 38, -1, 27]},
  {"Taxon": "Friulian", "Segments": [13, 0, 26, 53, 32, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 13, 4, 26, 27, -1, 12, 0]}
]},
{"Name": "Animal-Bestia", "Data": [
  {"Taxon": "Latin", "Segments": [19, 25, 14, 20, 7, 27]},
  {"Taxon": "Italian", "Segments": [19, 7, 16, 16, -1, 27]},
  {"Taxon": "PortugueseBrazil", "Segments": [19, 7, -1, 16, -1, 29]},
  {"Taxon": "Portuguese", "Segments": [19, 7, -1, 16, -1, 29]},
  {"Taxon": "Friulian", "Segments": [19, 7, 14, -1, -1, -1]}
]},
{"Name": "Fish-Piskem", "Data": [
  {"Taxon": "Latin", "Segments": [48, 7, 14, 51, 0, 26]},
  {"Taxon": "Spanish", "Segments": [48, 0, 58, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [48, 0, 16, 16, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, 59, 16, -1, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [48, 60, 16, -1, 47, -1]},
  {"Taxon": "Catalan", "Segments": [48, 0, 16, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [48, 31, 14, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [48, 0, 16, 20, 0, -1]}
]},
{"Name": "Fish-Pescion", "Data": [
  {"Taxon": "French", "Segments": [48, 8, 27, 14, 61]},
  {"Taxon": "Walloon", "Segments": [48, -1, 31, 40, 61]}
]},
{"Name": "Bird-Avem", "Data": [
  {"Taxon": "Latin", "Segments": [27, 8, 0, 26]},
  {"Taxon": "Spanish", "Segments": [27, 19, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [27, 18, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [27, 18, 47, -1]},
  {"Taxon": "Catalan", "Segments": [27, 8, -1, -1]}
]},
{"Name": "Bird-Avicellum", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 27, 8, 7, -1, 51, -1, 0, 32, 32, 15, 26]},
  {"Taxon": "French", "Segments": [8, 27, -1, -1, -1, 49, -1, 6, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [-1, -1, 15, -1, 20, 46, -1, 31, 32, 32, 6, -1]},
  {"Taxon": "Catalan", "Segments": [-1, -1, 15, -1, -1, 14, -1, 0, -1, 35, -1, -1]},
  {"Taxon": "Walloon", "Segments": [-1, -1, 21, -1, -1, 40, -1, 57, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, -1, 15, -1, -1, 46, 12, 31, -1, 32, -1, -1]}
]},
{"Name": "Bird-Passerem", "Data": [
  {"Taxon": "Latin", "Segments": [48, 27, 14, 14, 0, 33, 0, 26]},
  {"Taxon": "Spanish", "Segments": [48, 27, -1, 34, 27, 28, 6, -1]},
  {"Taxon": "Italian", "Segments": [48, 27, 14, 14, 0, 33, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, 27, -1, 14, 29, 28, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [48, 27, -1, 14, 29, 28, 15, -1]},
  {"Taxon": "Romanian", "Segments": [48, 27, -1, 14, 4, 28, 0, -1]}
]},
{"Name": "Dog", "Data": [
  {"Taxon": "Latin", "Segments": [51, -1, 27, 13, 0, 26]},

```

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```
{
  "Taxon": "French", "Segments": [16, 12, 62, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [51, -1, 27, 13, -1, -1]},
  "Taxon": "Italian", "Segments": [51, -1, 27, 13, 0, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [51, -1, 63, -1, -1, -1]},
  "Taxon": "Portuguese", "Segments": [51, -1, 63, -1, -1, -1]},
  "Taxon": "Catalan", "Segments": [51, -1, 27, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [46, -1, 64, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [65, -1, 27, 13, -1, -1]},
  "Taxon": "Romanian", "Segments": [51, -1, 66, 13, 0, -1]}
]},
{
  "Name": "Louse", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, 23, 15, -1, 51, 32, 15, 14]},
    {"Taxon": "French", "Segments": [48, -1, 15, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 12, 6, -1, -1, 34, -1, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 7, 23, 9, 51, 51, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 7, -1, 6, -1, 35, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 7, -1, 6, -1, 35, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 6, -1, -1, -1, 35, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 12, 15, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, -1, 0, 23, 6, -1, 32, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, -1, 4, 23, 15, -1, 51, 12, 0, -1]}
  ]
},
{
  "Name": "Snake", "Data": [
    {"Taxon": "Latin", "Segments": [14, -1, 0, 33, 48, -1, 0, 13, 20, 0, 26]},
    {"Taxon": "French", "Segments": [14, -1, 0, 36, 48, -1, 43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, -1, 0, 28, 48, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [14, -1, 0, 33, 48, -1, 0, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, 36, 48, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 47, 28, 48, -1, 64, -1, 20, 47, -1]},
    {"Taxon": "Catalan", "Segments": [14, -1, 4, 33, 48, -1, 0, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 12, 31, 36, 48, -1, 64, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, -1, 27, 33, 48, -1, 7, 13, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [16, -1, 27, 28, 48, -1, 0, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Worm", "Data": [
    {"Taxon": "Latin", "Segments": [8, 0, 33, 26, 0, 26]},
    {"Taxon": "French", "Segments": [18, 0, 36, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 0, 28, 26, 0, -1]},
    {"Taxon": "Italian", "Segments": [18, 0, 33, 26, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 0, 36, 26, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 0, 28, 26, 47, -1]},
    {"Taxon": "Catalan", "Segments": [18, 31, 28, 26, -1, -1]},
    {"Taxon": "Walloon", "Segments": [18, 12, 31, 55, -1, -1]},
    {"Taxon": "Friulian", "Segments": [18, 12, 31, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 12, 0, 33, 26, 0]}
  ]
},
{
  "Name": "Tree", "Data": [
    {"Taxon": "Latin", "Segments": [27, 33, 19, 6, 33, 0, 26]},
    {"Taxon": "French", "Segments": [27, 36, 19, -1, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, 67, 6, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [27, 32, 19, 0, 28, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 36, 18, 6, 28, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 28, 18, 15, 28, 47, -1]},
    {"Taxon": "Catalan", "Segments": [27, -1, 19, -1, 28, 4, -1]},
    {"Taxon": "Walloon", "Segments": [2, -1, 19, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 33, 19, 15, 32, -1, -1]},
  ]
}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian", "Segments": [27, 33, 19, 6, 33, 0, -1]}
}],
{
  "Name": "Forest", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 32, 8, 27]},
    {"Taxon": "Spanish", "Segments": [14, 0, 32, 19, 27]},
    {"Taxon": "Italian", "Segments": [14, 0, 32, 18, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 31, 8, 18, 27]},
    {"Taxon": "Portuguese", "Segments": [14, 31, 68, 18, 29]},
    {"Taxon": "Catalan", "Segments": [14, 0, 32, 19, 27]},
    {"Taxon": "Friulian", "Segments": [14, 31, 32, 18, 0]}
  ]
},
{
  "Name": "Stick", "Data": [
    {"Taxon": "Latin", "Segments": [48, 53, 32, 15, 14]},
    {"Taxon": "French", "Segments": [48, 27, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 27, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 27, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 27, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, 32, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 53, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 27, 28, -1, -1]}
  ]
},
{
  "Name": "Fruit", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 21, -1, 51, 20, 15, 14]},
    {"Taxon": "French", "Segments": [24, 36, 69, 7, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, 15, -1, -1, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, 15, -1, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, 15, -1, -1, 20, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, 15, -1, -1, 20, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 28, 15, 12, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 55, 22, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 33, 15, -1, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 33, 15, -1, 51, 20, -1, -1]}
  ]
},
{
  "Name": "Seed", "Data": [
    {"Taxon": "Latin", "Segments": [14, 25, 26, 0, 13]},
    {"Taxon": "Italian", "Segments": [14, 0, 26, 0, -1]}
  ]
},
{
  "Name": "Seed-Sementis", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 26, -1, 0, 13, 20, 7, 14]},
    {"Taxon": "French", "Segments": [14, 4, 26, -1, 43, -1, -1, -1, 14]},
    {"Taxon": "Spanish", "Segments": [14, 7, 26, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 26, -1, 0, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, 26, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 47, 26, -1, 64, -1, 20, 47, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 26, -1, 0, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 7, 26, -1, 64, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, 26, -1, 31, 13, 46, 31, -1]},
    {"Taxon": "Romanian", "Segments": [14, 4, 26, -1, 47, 13, 46, 4, -1]}
  ]
},
{
  "Name": "Seed-Granum", "Data": [
    {"Taxon": "Latin", "Segments": [1, 33, 53, 13, 15, 26]},
    {"Taxon": "French", "Segments": [1, 36, 31, 13, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [1, 33, 27, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 63, -1, -1, -1]}
  ]
}
```

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```
{
  "Taxon": "Portuguese", "Segments": [1, 28, 63, -1, -1, -1]},
  "Taxon": "Catalan", "Segments": [1, 28, 27, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [1, 33, 7, 13, -1, -1]},
  "Taxon": "Friulian", "Segments": [1, 33, 27, 13, -1, -1]},
  "Taxon": "Romanian", "Segments": [1, 33, 70, -1, -1, -1]}
}],
{
  "Name": "Leaf", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 32, 7, 27]},
    {"Taxon": "French", "Segments": [24, -1, 30, 12, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, -1, 6, 34, -1, 27]},
    {"Taxon": "Italian", "Segments": [24, -1, 9, 35, 35, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 6, 35, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 6, 35, -1, 29]},
    {"Taxon": "Catalan", "Segments": [24, -1, 15, 35, -1, 4]},
    {"Taxon": "Walloon", "Segments": [24, -1, 9, 12, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 8, 0, -1, -1, 0]},
    {"Taxon": "Romanian", "Segments": [24, 39, -1, 12, 0, -1]}
  ]
},
{
  "Name": "Leaf-Frondea", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 6, 13, 23, 0, 27]},
    {"Taxon": "Italian", "Segments": [24, 33, 6, 13, 71, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, 61, 14, -1, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, 61, 14, -1, 29, -1]},
    {"Taxon": "Romanian", "Segments": [24, 28, 15, 13, 49, -1, 4]}
  ]
},
{
  "Name": "Root", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 33, 53, 23, 37, 51, 0, 26]},
    {"Taxon": "Spanish", "Segments": [-1, 33, 27, -1, 7, 58, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 36, 27, -1, 7, 14, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 36, 29, -1, 7, 16, -1, -1]},
    {"Taxon": "Catalan", "Segments": [4, 33, 31, -1, 32, -1, -1, -1]}
  ]
},
{
  "Name": "Root-Radix", "Data": [
    {"Taxon": "Latin", "Segments": [33, 53, 23, 37, 51, 0]},
    {"Taxon": "French", "Segments": [36, 27, 23, 7, -1, -1]},
    {"Taxon": "Italian", "Segments": [33, 27, 23, 37, 46, 0]}
  ]
},
{
  "Name": "Root-Radicina", "Data": [
    {"Taxon": "Latin", "Segments": [33, 53, 23, 37, 51, 37, 13, 27]},
    {"Taxon": "French", "Segments": [36, 27, -1, -1, 14, 7, 13, -1]},
    {"Taxon": "Walloon", "Segments": [55, 31, -1, -1, 14, 31, 13, -1]},
    {"Taxon": "Romanian", "Segments": [33, 4, 23, 4, 46, 7, 13, 4]}
  ]
},
{
  "Name": "BarkOfATree", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 33, 20, 7, 51, 0, 26]},
    {"Taxon": "Italian", "Segments": [51, 6, 33, 20, 7, 46, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 9, 36, 46, 7, 14, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 9, 28, 20, 7, 14, 47, -1]}
  ]
},
{
  "Name": "BarkOfATree-Corticea", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 33, 20, 7, 51, 0, 27]},
    {"Taxon": "Spanish", "Segments": [51, 6, 28, 20, 0, 58, -1, 27]},
    {"Taxon": "Italian", "Segments": [51, 6, 33, 20, 0, 20, 46, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 36, 46, 7, 14, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 28, 20, 7, 14, 29, -1]}
  ]
},
]
```


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```
{
  "Name": "BarkOfATree-Skortea", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 51, -1, 6, 33, 20, 0, 27]},
    {"Taxon": "French", "Segments": [0, -1, 51, -1, 6, 36, 14, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 51, -1, 9, 33, 52, -1, 27]},
    {"Taxon": "Catalan", "Segments": [4, 14, 51, -1, 9, 33, 14, -1, 4]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 51, 8, 27, 14, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 51, 8, 27, 33, 52, -1, 0]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 51, -1, 39, 28, 52, -1, 4]}
  ]
},
{
  "Name": "Flower", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 2, 33, 0, 26]},
    {"Taxon": "French", "Segments": [24, 32, 30, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 32, 6, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, 12, 2, 28, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 32, 6, 36, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 32, 6, 28, -1, -1]},
    {"Taxon": "Catalan", "Segments": [24, 32, 9, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 32, 72, 36, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 32, 2, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 32, 39, 28, 0, -1]}
  ]
},
{
  "Name": "Grass", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 40, 0, 33, 19, 27]},
    {"Taxon": "French", "Segments": [-1, -1, 31, 36, 19, -1]},
    {"Taxon": "Spanish", "Segments": [5, -1, 0, 28, 19, 27]},
    {"Taxon": "Italian", "Segments": [-1, -1, 31, 33, 19, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 0, 36, 18, 29]},
    {"Taxon": "Portuguese", "Segments": [-1, -1, 31, 28, 18, 29]},
    {"Taxon": "Catalan", "Segments": [-1, -1, 0, 33, 19, 4]},
    {"Taxon": "Walloon", "Segments": [12, -1, 31, -1, 48, -1]},
    {"Taxon": "Friulian", "Segments": [12, -1, 27, 33, 19, 0]},
    {"Taxon": "Romanian", "Segments": [12, -1, 27, 28, 19, 4]}
  ]
},
{
  "Name": "Grass-Gramen", "Data": [
    {"Taxon": "Latin", "Segments": [1, 33, 53, 26, 0, 13]},
    {"Taxon": "French", "Segments": [1, 36, 27, 26, 31, 13]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 26, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 45, 26, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 28, 29, 26, 29, -1]},
    {"Taxon": "Catalan", "Segments": [1, 28, 27, 26, -1, -1]}
  ]
},
{
  "Name": "Rope", "Data": [
    {"Taxon": "Latin", "Segments": [24, 21, 13, -1, 0, 26]},
    {"Taxon": "Italian", "Segments": [24, 15, 13, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [24, 15, 13, 12, 0, -1]}
  ]
},
{
  "Name": "Rope-Restis", "Data": [
    {"Taxon": "Latin", "Segments": [33, 0, 14, 20, 0, 26]},
    {"Taxon": "Spanish", "Segments": [28, 7, 14, 20, 27, -1]},
    {"Taxon": "Italian", "Segments": [33, 31, 14, 20, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 31, 16, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 0, 16, 20, 47, -1]}
  ]
},
{
  "Name": "Skin", "Data": [
    {"Taxon": "French", "Segments": [51, 8, 27, -1, -1, -1, 13, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 6, 20, 0, 13, 13, 27]}
  ]
}
```

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```
{
  "Taxon": "PortugueseBrazil", "Segments": [51, -1, 6, 10, 7, -1, -1, 29]},
  "Taxon": "Portuguese", "Segments": [51, -1, 6, 23, 7, -1, -1, 29]},
  "Taxon": "Catalan", "Segments": [51, -1, 6, -1, -1, 13, 13, 4]}
}],
{
  "Name": "Skin-Pellis", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, 32, 32, 0, 26]},
    {"Taxon": "French", "Segments": [48, -1, 6, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 12, 0, 32, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 0, 32, 32, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 31, -1, 32, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 0, -1, 32, 47, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 0, -1, 35, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 12, 27, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 12, 31, 32, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 12, 0, -1, 32, 0, -1]}
  ],
  "Name": "Meat", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 33, 13, 0, 26]},
    {"Taxon": "French", "Segments": [16, 31, 36, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 28, 13, 0, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 33, 13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 36, 13, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 27, 28, 13, 47, -1]},
    {"Taxon": "Catalan", "Segments": [51, 27, 33, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 73, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 53, 33, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 28, 13, 0, -1]}
  ],
  "Name": "Meat-Vivenda", "Data": [
    {"Taxon": "Latin", "Segments": [8, 37, 8, -1, 0, 13, 23, 27]},
    {"Taxon": "French", "Segments": [18, 12, -1, -1, 43, -1, 23, -1]},
    {"Taxon": "Spanish", "Segments": [19, 7, 19, 12, 0, 13, 23, 27]},
    {"Taxon": "Italian", "Segments": [18, 7, 18, -1, 27, 13, 23, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 7, 18, -1, 64, -1, 23, 27]},
    {"Taxon": "Portuguese", "Segments": [18, 7, 18, -1, 64, -1, 23, 29]}
  ],
  "Name": "Blood", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, 13, 74, -1, 7, 13, 0, 26]},
    {"Taxon": "French", "Segments": [14, 43, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 27, 75, 1, -1, 28, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 27, 13, 1, 8, 0, -1, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 45, -1, 1, -1, 7, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 45, -1, 1, -1, 47, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 27, 75, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 76, -1, 1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 27, 75, 51, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 47, 13, 10, -1, 0, -1, -1, -1]}
  ],
  "Name": "Bone", "Data": [
    {"Taxon": "Latin", "Segments": [-1, -1, 6, 14, 14, 15, 26]},
    {"Taxon": "French", "Segments": [-1, -1, 9, -1, 14, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 8, 0, 14, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 9, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 6, -1, 14, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, -1, 6, -1, 14, 15, -1]},
    {"Taxon": "Catalan", "Segments": [-1, -1, 9, -1, 14, -1, -1]},
```

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```
{
  "Taxon": "Walloon", "Segments": [-1, -1, 9, -1, 16, -1, -1]},
  "Taxon": "Friulian", "Segments": [18, 8, 31, -1, 14, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, -1, 6, -1, 14, -1, -1]}
}],
{
  "Name": "FatNoun", "Data": [
    {"Taxon": "Latin", "Segments": [27, 23, 0, 48, 0, 26]},
    {"Taxon": "Italian", "Segments": [27, 23, 7, 48, 0, -1]}
  ]
},
{
  "Name": "FatNoun-Crassia", "Data": [
    {"Taxon": "French", "Segments": [1, 36, 31, 14, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 14, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 27, 16, 29]},
    {"Taxon": "Portuguese", "Segments": [1, 28, 27, 16, 29]},
    {"Taxon": "Catalan", "Segments": [1, 28, 0, 16, -1]},
    {"Taxon": "Walloon", "Segments": [51, 55, 73, 77, -1]}
  ]
},
{
  "Name": "Egg", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 2, 8, 15, 26]},
    {"Taxon": "French", "Segments": [-1, 30, 24, -1, -1]},
    {"Taxon": "Spanish", "Segments": [8, 0, 19, 6, -1]},
    {"Taxon": "Italian", "Segments": [8, 9, 18, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 6, 18, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 6, 18, 15, -1]},
    {"Taxon": "Catalan", "Segments": [-1, 9, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 21, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 21, 24, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 6, 8, -1, -1]}
  ]
},
{
  "Name": "Horn", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 6, 33, 13, 21]},
    {"Taxon": "French", "Segments": [51, -1, 9, 36, 13, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, 0, 28, 13, 6]},
    {"Taxon": "Italian", "Segments": [51, -1, 9, 33, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 6, 36, 13, 15]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 6, 28, 13, 15]},
    {"Taxon": "Catalan", "Segments": [51, -1, 9, 33, 13, -1]},
    {"Taxon": "Walloon", "Segments": [51, 8, 31, -1, 13, -1]},
    {"Taxon": "Friulian", "Segments": [51, 8, 53, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, -1, 6, 33, 13, -1]}
  ]
},
{
  "Name": "Tail", "Data": [
    {"Taxon": "Latin", "Segments": [51, 78, 23, 27, -1]},
    {"Taxon": "French", "Segments": [51, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, 32, 27, -1]},
    {"Taxon": "Italian", "Segments": [51, 6, 23, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 8, 23, 29]},
    {"Taxon": "Portuguese", "Segments": [51, 27, 8, 23, 29]},
    {"Taxon": "Catalan", "Segments": [51, 15, -1, 27, -1]},
    {"Taxon": "Walloon", "Segments": [51, 9, 8, -1, -1]},
    {"Taxon": "Friulian", "Segments": [51, 9, 23, 31, -1]},
    {"Taxon": "Romanian", "Segments": [65, 39, 23, 4, -1]}
  ]
},
{
  "Name": "Feather", "Data": [
    {"Taxon": "Latin", "Segments": [48, 32, 21, 26, 27]},
    {"Taxon": "French", "Segments": [48, 32, 22, 26, -1]},
    {"Taxon": "Spanish", "Segments": [48, 32, 15, 26, 27]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Italian", "Segments": [48, 12, 15, 26, 27]},
  "Taxon": "Catalan", "Segments": [48, 32, 6, 26, 4]},
  "Taxon": "Walloon", "Segments": [48, 32, 9, 26, -1]},
  "Taxon": "Friulian", "Segments": [48, 32, 15, 26, 31]}
}],
{
  "Name": "Feather-Penna", "Data": [
    {"Taxon": "Latin", "Segments": [48, 0, 13, 13, 27]},
    {"Taxon": "French", "Segments": [48, 31, -1, 13, -1]},
    {"Taxon": "Spanish", "Segments": [48, 0, -1, 38, 27]},
    {"Taxon": "Italian", "Segments": [48, 0, 13, 13, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 0, -1, 13, 29]},
    {"Taxon": "Portuguese", "Segments": [48, 0, -1, 13, 29]},
    {"Taxon": "Catalan", "Segments": [48, 31, -1, 38, 4]},
    {"Taxon": "Walloon", "Segments": [48, 0, -1, 13, -1]},
    {"Taxon": "Friulian", "Segments": [48, 31, -1, 13, 0]},
    {"Taxon": "Romanian", "Segments": [48, 27, -1, 13, 4]}
  ]
},
{
  "Name": "Hair", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 7, 32, 15, 14]},
    {"Taxon": "French", "Segments": [48, 8, 27, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, -1, 0, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 0, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 0, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 47, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 31, 32, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, -1, 25, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, -1, 4, 28, -1, -1]}
  ]
},
{
  "Name": "Hair-Capillus", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 48, 7, 32, 32, 15, 14]},
    {"Taxon": "French", "Segments": [16, 4, 18, 79, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 19, 0, -1, 5, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 48, 0, 32, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 19, 0, -1, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 67, 0, -1, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, 19, 31, -1, 35, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 7, 18, 12, -1, -1, 27, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 18, 59, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 48, 7, -1, 20, 7, 27]},
    {"Taxon": "French", "Segments": [16, 4, 18, 31, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 67, 0, -1, 58, -1, 27]},
    {"Taxon": "Italian", "Segments": [51, 27, 18, 0, 20, 20, 14, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 19, 0, -1, 14, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 67, 0, -1, 14, -1, 29]},
    {"Taxon": "Catalan", "Segments": [51, 27, 48, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 53, 24, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 48, -1, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head-Testa", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 14, 20, 27]},
    {"Taxon": "French", "Segments": [20, 31, -1, 20, -1]},
    {"Taxon": "Italian", "Segments": [20, 31, 14, 20, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 31, 14, 20, 29]},
    {"Taxon": "Portuguese", "Segments": [20, 31, 16, 20, 29]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [20, 0, 14, 20, 4]},
  "Taxon": "Walloon", "Segments": [46, 31, 14, -1, -1]},
  "Taxon": "Friulian", "Segments": [20, 31, 14, 20, 0]},
  "Taxon": "Romanian", "Segments": [52, 80, 14, 20, 4]}
}],
{
  "Name": "Ear", "Data": [
    {"Taxon": "Latin", "Segments": [2, 33, 7, 51, 32, 27, -1]},
    {"Taxon": "French", "Segments": [6, 36, 59, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [6, 28, 0, -1, 34, -1, 27]},
    {"Taxon": "Italian", "Segments": [6, 33, 0, 51, 51, 12, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 28, 0, -1, -1, 35, 29]},
    {"Taxon": "Portuguese", "Segments": [6, 28, 60, -1, -1, 35, 29]},
    {"Taxon": "Catalan", "Segments": [15, 28, 31, -1, -1, 35, 4]},
    {"Taxon": "Walloon", "Segments": [9, 55, 56, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [6, 33, 0, -1, -1, 32, 0]},
    {"Taxon": "Romanian", "Segments": [15, 33, 0, -1, 51, -1, 0]}
  ]
},
{
  "Name": "Eye", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 6, -1, 51, 15, 32, 15, 14]},
    {"Taxon": "French", "Segments": [-1, 30, -1, 12, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 6, -1, 34, -1, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 9, 51, 51, -1, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 6, -1, -1, -1, 35, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 6, -1, -1, -1, 35, 15, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 21, -1, 12, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [18, 6, -1, -1, 32, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 6, -1, 81, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Nose", "Data": [
    {"Taxon": "Latin", "Segments": [13, 53, 14, 15, 14]},
    {"Taxon": "French", "Segments": [13, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, 27, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 53, 14, 6, -1]},
    {"Taxon": "Catalan", "Segments": [13, 27, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, 0, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 53, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 27, 14, -1, -1]}
  ]
},
{
  "Name": "Nose-Nares", "Data": [
    {"Taxon": "Spanish", "Segments": [13, 27, 28, 7, 58, -1]},
    {"Taxon": "Italian", "Segments": [13, 27, 33, 7, 46, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 27, 28, 7, 14, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 29, 28, 7, 16, -1]},
    {"Taxon": "Catalan", "Segments": [13, 53, 33, 11, 14, -1]}
  ]
},
{
  "Name": "Mouth", "Data": [
    {"Taxon": "Latin", "Segments": [19, 15, 51, 51, 27]},
    {"Taxon": "French", "Segments": [19, 15, -1, 16, -1]},
    {"Taxon": "Spanish", "Segments": [19, 6, -1, 51, 27]},
    {"Taxon": "Italian", "Segments": [19, 6, 51, 51, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 6, -1, 51, 29]},
    {"Taxon": "Portuguese", "Segments": [19, 6, -1, 51, 29]},
    {"Taxon": "Catalan", "Segments": [19, 6, -1, 51, 4]},
    {"Taxon": "Walloon", "Segments": [19, 9, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 9, -1, 65, 31]},
    {"Taxon": "Romanian", "Segments": [19, 15, -1, 51, 4]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
}},
{"Name": "Mouth-Gula", "Data": [
  {"Taxon": "Latin", "Segments": [1, 15, 32, 27]},
  {"Taxon": "French", "Segments": [1, 30, 32, -1]},
  {"Taxon": "Spanish", "Segments": [1, 6, 32, 27]},
  {"Taxon": "Italian", "Segments": [1, 6, 32, 27]},
  {"Taxon": "Catalan", "Segments": [1, 6, 32, 4]},
  {"Taxon": "Walloon", "Segments": [1, 72, 12, -1]},
  {"Taxon": "Friulian", "Segments": [1, 9, 32, 0]},
  {"Taxon": "Romanian", "Segments": [1, 15, 28, 4]}
]},
{"Name": "Tooth", "Data": [
  {"Taxon": "Latin", "Segments": [23, -1, 0, 13, 20, 0, 26]},
  {"Taxon": "French", "Segments": [23, -1, 43, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [23, 12, 0, 13, 20, 0, -1]},
  {"Taxon": "Italian", "Segments": [23, 31, 13, 20, 0, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [23, 64, -1, 46, 7, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [23, 64, -1, 20, 47, -1, -1]},
  {"Taxon": "Walloon", "Segments": [23, 64, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [23, 7, 13, 20, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [23, 7, 13, 20, 0, -1, -1]}
]},
{"Name": "Fingernail", "Data": [
  {"Taxon": "Latin", "Segments": [15, 13, 1, -1, 15, 32, 27]},
  {"Taxon": "French", "Segments": [61, -1, 1, -1, -1, 32, -1]},
  {"Taxon": "Spanish", "Segments": [15, 38, -1, -1, -1, -1, 27]},
  {"Taxon": "Italian", "Segments": [15, 13, 1, 12, -1, -1, 27]},
  {"Taxon": "PortugueseBrazil", "Segments": [15, 38, -1, -1, -1, -1, 29]},
  {"Taxon": "Portuguese", "Segments": [15, 38, -1, -1, -1, -1, 29]},
  {"Taxon": "Walloon", "Segments": [61, -1, 1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [9, 75, 1, -1, 15, 32, 31]},
  {"Taxon": "Romanian", "Segments": [15, 13, 1, 12, -1, -1, 0]}
]},
{"Name": "Foot", "Data": [
  {"Taxon": "Latin", "Segments": [48, -1, 0, -1, 23, 0, 26]},
  {"Taxon": "French", "Segments": [48, 12, 0, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [48, 12, 0, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [48, 12, 57, -1, 23, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 31, -1, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [48, -1, 31, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [48, -1, 31, 8, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [48, -1, 37, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [48, -1, 37, -1, 20, -1, -1]},
  {"Taxon": "Romanian", "Segments": [48, 7, 0, 49, -1, -1, -1]}
]},
{"Name": "Leg-Gamba", "Data": [
  {"Taxon": "Latin", "Segments": [1, 27, 26, 19, 27]},
  {"Taxon": "French", "Segments": [3, 43, -1, 19, -1]},
  {"Taxon": "Spanish", "Segments": [1, 27, 26, 19, 27]},
  {"Taxon": "Italian", "Segments": [1, 27, 26, 19, 27]},
  {"Taxon": "Catalan", "Segments": [51, 27, 26, 19, 4]},
  {"Taxon": "Walloon", "Segments": [10, 82, -1, 48, -1]},
  {"Taxon": "Friulian", "Segments": [83, 27, 26, 19, 0]},
  {"Taxon": "Romanian", "Segments": [1, 27, 26, 19, 4]}
]},
{"Name": "Leg-Perna", "Data": [
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [48, 0, 33, 13, 27, -1]},
  "Taxon": "Spanish", "Segments": [48, 12, 0, 28, 13, 27]},
  "Taxon": "Italian", "Segments": [48, 31, 33, 13, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [48, 31, 36, 13, 29, -1]},
  "Taxon": "Portuguese", "Segments": [48, 31, 28, 13, 29, -1]},
  "Taxon": "Catalan", "Segments": [48, 31, 33, 13, 4, -1]},
  "Taxon": "Romanian", "Segments": [1, 27, 26, 19, 4, -1]}
}],
{
  "Name": "Leg-Petiolus", "Data": [
    "Taxon": "Latin", "Segments": [48, 0, -1, 20, 7, 6, 32, 15, 14]},
    "Taxon": "Spanish", "Segments": [48, 0, -1, 58, 7, 6, 32, 6, -1]},
    "Taxon": "Italian", "Segments": [48, 7, 20, 46, -1, 9, 32, 6, -1]},
    "Taxon": "Friulian", "Segments": [48, 31, 51, 6, 32, -1, -1, -1, -1]},
    "Taxon": "Romanian", "Segments": [48, 7, -1, 46, 12, 6, 33, -1, -1]}
  ],
{
  "Name": "Knee-Geniculum", "Data": [
    "Taxon": "Latin", "Segments": [1, -1, 0, 13, 7, -1, 51, 15, 32, 15, 26]},
    "Taxon": "French", "Segments": [3, -1, 4, 13, 15, -1, -1, -1, -1, -1, -1]},
    "Taxon": "Spanish", "Segments": [-1, -1, 7, 13, 6, -1, 34, 6, -1, -1, -1]},
    "Taxon": "Italian", "Segments": [10, -1, 7, 13, 9, 51, 51, 12, -1, 6, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [3, 15, 0, -1, -1, -1, -1, -1, 35, 15, -1]},
    "Taxon": "Portuguese", "Segments": [3, 8, 29, -1, -1, -1, -1, -1, 35, 15, -1]},
    "Taxon": "Catalan", "Segments": [3, -1, 4, 13, 6, -1, -1, -1, 35, -1, -1]},
    "Taxon": "Walloon", "Segments": [10, -1, 7, 13, 9, -1, -1, -1, -1, -1, -1]},
    "Taxon": "Friulian", "Segments": [10, -1, 0, 13, 6, -1, -1, -1, 32, 7, -1]},
    "Taxon": "Romanian", "Segments": [10, -1, 0, 13, 15, 13, 81, -1, -1, -1, -1]}
  ],
{
  "Name": "Hand", "Data": [
    "Taxon": "Latin", "Segments": [26, 27, 13, 15, 26]},
    "Taxon": "French", "Segments": [26, 64, -1, -1, -1]},
    "Taxon": "Spanish", "Segments": [26, 27, 13, 6, -1]},
    "Taxon": "Italian", "Segments": [26, 53, 13, 6, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [26, 63, -1, -1, -1]},
    "Taxon": "Portuguese", "Segments": [26, 63, -1, -1, -1]},
    "Taxon": "Walloon", "Segments": [26, 64, -1, -1, -1]},
    "Taxon": "Friulian", "Segments": [26, 27, 75, -1, -1]},
    "Taxon": "Romanian", "Segments": [26, 47, 13, 4, -1]}
  ],
{
  "Name": "Wing", "Data": [
    "Taxon": "Latin", "Segments": [53, 32, 27]},
    "Taxon": "French", "Segments": [0, 32, -1]},
    "Taxon": "Spanish", "Segments": [27, 32, 27]},
    "Taxon": "Italian", "Segments": [27, 32, 27]},
    "Taxon": "PortugueseBrazil", "Segments": [27, -1, -1]},
    "Taxon": "Portuguese", "Segments": [27, -1, -1]},
    "Taxon": "Catalan", "Segments": [27, 32, 4]},
    "Taxon": "Walloon", "Segments": [0, 32, -1]},
    "Taxon": "Friulian", "Segments": [27, 32, 0]}
  ],
{
  "Name": "Belly", "Data": [
    "Taxon": "Latin", "Segments": [8, -1, 0, 13, 20, 33, 0, 26]},
    "Taxon": "French", "Segments": [18, -1, 43, -1, 20, 36, -1, -1]},
    "Taxon": "Spanish", "Segments": [19, 12, 0, 13, 20, 28, 0, -1]},
    "Taxon": "Catalan", "Segments": [19, -1, 0, 13, 20, 28, 4, -1]},
    "Taxon": "Walloon", "Segments": [18, -1, 62, -1, 20, -1, -1, -1]},
    "Taxon": "Friulian", "Segments": [18, 7, 13, 20, 33, 7, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian", "Segments": [18, 7, 13, 20, 33, 0, -1, -1]}
}],
{
  "Name": "Belly-Pantex", "Data": [
    {"Taxon": "Latin", "Segments": [48, 27, 13, 20, 7, 51, 0, 26]},
    {"Taxon": "French", "Segments": [48, 43, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 13, 58, -1, -1, -1, 27]},
    {"Taxon": "Italian", "Segments": [48, 27, 13, 46, -1, -1, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 45, -1, 14, -1, -1, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 45, -1, 14, -1, -1, 29, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, 38, 16, -1, -1, 4, -1]},
    {"Taxon": "Walloon", "Segments": [48, 82, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 27, 13, 52, -1, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [48, 47, 13, 20, 0, 46, 0, -1]}
  ]},
{
  "Name": "Guts", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 20, 0, 33, 53, 13, 0, 27]},
    {"Taxon": "French", "Segments": [43, -1, 20, -1, 36, 27, -1, -1, 12]},
    {"Taxon": "Spanish", "Segments": [0, 13, 20, -1, 28, 27, 38, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 20, -1, 28, 45, 38, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [64, -1, 20, -1, 28, 29, 38, -1, 29]},
    {"Taxon": "Catalan", "Segments": [4, 13, 20, -1, 28, 27, 38, -1, 4]}
  ]},
{
  "Name": "Neck", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 6, 32, 32, 15, 26]},
    {"Taxon": "French", "Segments": [51, -1, 15, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, 0, -1, 5, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 6, 32, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 9, -1, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 9, -1, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 9, -1, 35, -1, -1]},
    {"Taxon": "Friulian", "Segments": [51, 8, 31, -1, 32, -1, -1]}
  ]},
{
  "Name": "Back", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 6, 33, 14, 15, 26]},
    {"Taxon": "French", "Segments": [23, -1, 6, -1, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 9, 14, 14, 6, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 6, -1, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, -1, 9, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 8, 0, -1, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 6, -1, -1, -1, -1, -1]}
  ]},
{
  "Name": "Back-Spatula", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 27, 20, 15, 32, 27]},
    {"Taxon": "French", "Segments": [0, -1, 48, 6, -1, -1, 32, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 27, 32, -1, 23, 27]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 27, 32, -1, 32, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 16, 48, 27, 23, -1, 8, 29]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 48, 27, 23, -1, 8, 29]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 27, 35, -1, 35, 4]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 48, 27, -1, -1, 32, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 27, -1, -1, 32, 31]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 48, 27, 20, -1, -1, 0]}
  ]},
{
  "Name": "Breast", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 13, 15, 14]},
    {"Taxon": "French", "Segments": [14, 64, -1, -1, -1]}
  ]}
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Spanish", "Segments": [14, 0, 13, 6, -1]},
  "Taxon": "Italian", "Segments": [14, 0, 13, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [14, 59, -1, 15, -1]},
  "Taxon": "Portuguese", "Segments": [14, 60, -1, 15, -1]},
  "Taxon": "Catalan", "Segments": [14, 7, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [14, 0, 13, -1, -1]},
  "Taxon": "Romanian", "Segments": [14, 27, 13, -1, -1]}
}],
{
  "Name": "Breast-Pectus", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, 51, 20, 15, 14]},
    {"Taxon": "French", "Segments": [48, -1, 7, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, -1, 0, -1, 46, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 31, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 59, -1, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 60, -1, 20, 15, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 7, -1, 20, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, -1, 31, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 12, 0, 48, 20, -1, -1]}
  ]
},
{
  "Name": "Heart", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 6, 33, -1]},
    {"Taxon": "French", "Segments": [51, -1, 30, 36, -1]},
    {"Taxon": "Italian", "Segments": [51, 8, 9, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 9, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 6, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 9, 33, -1]},
    {"Taxon": "Walloon", "Segments": [51, -1, 21, 36, -1]},
    {"Taxon": "Friulian", "Segments": [51, -1, 21, 33, -1]}
  ]
},
{
  "Name": "Heart-Anima", "Data": [
    {"Taxon": "Latin", "Segments": [27, 13, 7, 26, 27]},
    {"Taxon": "French", "Segments": [84, -1, -1, 26, -1]},
    {"Taxon": "Spanish", "Segments": [27, 32, -1, 26, 27]},
    {"Taxon": "Italian", "Segments": [27, 32, -1, 26, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 8, -1, 26, 29]},
    {"Taxon": "Portuguese", "Segments": [27, 32, -1, 26, 29]},
    {"Taxon": "Walloon", "Segments": [73, -1, -1, 26, -1]},
    {"Taxon": "Friulian", "Segments": [27, 13, 7, 26, 0]},
    {"Taxon": "Romanian", "Segments": [7, 13, 7, 26, 4]}
  ]
},
{
  "Name": "Liver", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 37, 51, 53, 20, 15, 26]},
    {"Taxon": "French", "Segments": [24, 8, 84, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, -1, 7, 85, 27, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, -1, 0, 1, 27, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 7, 1, 29, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 7, 85, 29, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 0, 10, 4, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 72, -1, -1, 20, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, -1, 7, 12, 53, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 7, 51, 27, 20, -1, -1]}
  ]
},
{
  "Name": "Sun", "Data": [
    {"Taxon": "Latin", "Segments": [14, 2, 32, 0, 26]},
    {"Taxon": "Spanish", "Segments": [14, 6, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 32, 0, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "PortugueseBrazil", "Segments": [14, 9, 8, -1, -1]},
  "Taxon": "Portuguese", "Segments": [14, 9, 68, -1, -1]},
  "Taxon": "Catalan", "Segments": [14, 9, 32, -1, -1]},
  "Taxon": "Walloon", "Segments": [14, 9, 32, 9, -1]},
  "Taxon": "Romanian", "Segments": [14, 39, 28, 0, -1]}
}],
{
  "Name": "Sun-Solliculus", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 32, 7, 51, 15, 32, 15, 14]},
    {"Taxon": "French", "Segments": [14, 9, 32, 86, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 6, 33, 0, -1, -1, 32, 7, -1]}
  ]
},
{
  "Name": "Moon", "Data": [
    {"Taxon": "Latin", "Segments": [32, 21, 13, 27]},
    {"Taxon": "French", "Segments": [32, 22, 13, -1]},
    {"Taxon": "Spanish", "Segments": [32, 15, 13, 27]},
    {"Taxon": "Italian", "Segments": [32, 15, 13, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 15, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [32, 15, -1, 29]},
    {"Taxon": "Catalan", "Segments": [35, 15, 13, 4]},
    {"Taxon": "Walloon", "Segments": [32, 79, 13, -1]},
    {"Taxon": "Friulian", "Segments": [32, 15, 13, 0]},
    {"Taxon": "Romanian", "Segments": [32, 15, 13, 4]}
  ]
},
{
  "Name": "Star", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 20, -1, 25, 32, 32, 27]},
    {"Taxon": "French", "Segments": [0, -1, 20, 8, 27, -1, 32, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 20, 28, 0, -1, 5, 27]},
    {"Taxon": "Italian", "Segments": [-1, 14, 20, -1, 0, 32, 32, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 20, 28, 0, -1, 32, 29]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 20, 28, 0, -1, 32, 29]},
    {"Taxon": "Catalan", "Segments": [4, 14, 20, -1, 31, -1, 32, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 20, -1, 72, -1, 32, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 20, -1, 31, -1, 32, 0]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 20, -1, 80, -1, -1, -1]}
  ]
},
{
  "Name": "Water", "Data": [
    {"Taxon": "Latin", "Segments": [27, -1, 87, -1, 27]},
    {"Taxon": "French", "Segments": [6, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, -1, 85, 8, 27]},
    {"Taxon": "Italian", "Segments": [27, 51, 51, 8, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, -1, 1, 8, 29]},
    {"Taxon": "Portuguese", "Segments": [27, -1, 1, 8, 29]},
    {"Taxon": "Catalan", "Segments": [56, -1, 85, 8, 4]},
    {"Taxon": "Walloon", "Segments": [57, -1, -1, 8, -1]},
    {"Taxon": "Friulian", "Segments": [27, -1, 1, -1, 0]},
    {"Taxon": "Romanian", "Segments": [27, -1, 48, -1, 4]}
  ]
},
{
  "Name": "Rain", "Data": [
    {"Taxon": "Latin", "Segments": [48, 32, 15, -1, 8, 7, 27]},
    {"Taxon": "French", "Segments": [48, 32, 69, -1, -1, 7, -1]},
    {"Taxon": "Spanish", "Segments": [5, -1, 15, -1, 19, 12, 27]},
    {"Taxon": "Italian", "Segments": [48, 12, 6, 23, 10, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [16, -1, 15, -1, 18, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [16, -1, 15, -1, 18, -1, 29]},
    {"Taxon": "Catalan", "Segments": [48, 32, 15, -1, 3, -1, 4]},
    {"Taxon": "Walloon", "Segments": [48, 32, 21, -1, 36, -1, -1]},
  ]
}
```

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```
{
  "Taxon": "Friulian", "Segments": [48, 32, 6, -1, -1, 12, 0]},
  "Taxon": "Romanian", "Segments": [48, 32, 39, -1, -1, 12, 0]}
}],
{
  "Name": "River", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 21, 26, 0, 13]},
    {"Taxon": "Italian", "Segments": [24, 12, 15, 26, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 32, 15, 26, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 32, 15, 26, 47, -1]},
    {"Taxon": "Friulian", "Segments": [24, 32, 15, 26, -1, -1]}
  ]
},
{
  "Name": "River-Rivus", "Data": [
    {"Taxon": "Latin", "Segments": [33, 37, 8, 15, 14]},
    {"Taxon": "French", "Segments": [36, 22, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 7, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 7, -1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 7, -1, 8, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 7, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [33, 7, -1, 8, -1]},
    {"Taxon": "Romanian", "Segments": [33, 47, -1, 8, -1]}
  ]
},
{
  "Name": "River-Riparia", "Data": [
    {"Taxon": "Latin", "Segments": [33, 37, 48, -1, 53, 33, 7, 27]},
    {"Taxon": "French", "Segments": [36, 7, 18, 12, 0, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 7, 18, 37, -1, 36, -1, -1]}
  ]
},
{
  "Name": "Lake", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 51, 15, 26]},
    {"Taxon": "French", "Segments": [32, 27, 51, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 85, 15, -1]},
    {"Taxon": "Catalan", "Segments": [35, 27, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 27, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 53, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 51, -1, -1]}
  ]
},
{
  "Name": "Sea", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 33, 0]},
    {"Taxon": "French", "Segments": [26, 31, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, 33, -1]},
    {"Taxon": "Walloon", "Segments": [26, 0, 36, -1]},
    {"Taxon": "Friulian", "Segments": [26, 53, 33, -1]},
    {"Taxon": "Romanian", "Segments": [26, 27, 33, 0]}
  ]
},
{
  "Name": "Salt", "Data": [
    {"Taxon": "Latin", "Segments": [14, 53, 32, 0, 26]},
    {"Taxon": "French", "Segments": [14, 31, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 27, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 27, 32, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 27, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 27, 32, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [14, 27, 32, -1, -1]},
  "Taxon": "Walloon", "Segments": [14, 0, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [14, 53, 32, -1, -1]},
  "Taxon": "Romanian", "Segments": [14, 27, 33, 0, -1]}
}],
{
  "Name": "Stone", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, 51, 14, 15, 26]},
    {"Taxon": "Italian", "Segments": [14, 27, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 59, -1, 16, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 60, -1, 16, 15, -1]}
  ]
},
{
  "Name": "Stone-Petra", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, 20, 33, 27]},
    {"Taxon": "French", "Segments": [48, 12, 0, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [48, 12, 0, 50, 28, 27]},
    {"Taxon": "Italian", "Segments": [48, 12, 25, 20, 33, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 0, 23, 28, 29]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 31, 50, 28, 29]},
    {"Taxon": "Catalan", "Segments": [48, -1, 0, 50, 28, 4]},
    {"Taxon": "Walloon", "Segments": [48, -1, 37, -1, 36, -1]},
    {"Taxon": "Friulian", "Segments": [48, 12, 25, -1, 33, 0]},
    {"Taxon": "Romanian", "Segments": [48, 12, 27, 20, 28, 4]}
  ]
},
{
  "Name": "Stone-Lapidem", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 48, 7, 23, 0, 26]},
    {"Taxon": "Spanish", "Segments": [32, 27, 15, -1, 23, 0, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 48, 7, 23, 0, -1]}
  ]
},
{
  "Name": "Sand", "Data": [
    {"Taxon": "Latin", "Segments": [40, 27, 33, 25, 13, 84]},
    {"Taxon": "Spanish", "Segments": [-1, 27, 28, 0, 13, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 27, 28, 59, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [-1, 29, 28, 60, -1, 29]},
    {"Taxon": "Catalan", "Segments": [-1, 4, 28, 0, 13, 4]},
    {"Taxon": "Romanian", "Segments": [-1, 27, 33, 7, 13, 4]}
  ]
},
{
  "Name": "Sand-Sabulum", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, 19, 15, 32, 15, 26]},
    {"Taxon": "French", "Segments": [14, 27, 19, -1, 32, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 56, 67, -1, 28, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 56, 67, -1, 28, 15, -1]},
    {"Taxon": "Catalan", "Segments": [14, 6, 33, 4, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 2, 18, 12, 61, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 27, 18, 27, 32, 9, 13]}
  ]
},
{
  "Name": "Sand-Sabula", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, -1, 19, 15, 32, 27]},
    {"Taxon": "Italian", "Segments": [14, 27, 19, 19, -1, 12, 27]}
  ]
},
{
  "Name": "Dust", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 32, 8, 0, 33, 0, 26]},
    {"Taxon": "French", "Segments": [48, 15, 23, 36, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, 6, 32, 18, 0, 33, 0, -1]},
    {"Taxon": "Friulian", "Segments": [48, 9, 32, 18, 27, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 15, 32, 19, 0, 33, 0, -1]}
  ]
},
]
```


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```
{
  "Name": "Dust-Pulwus", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 32, 8, 15, 14]},
    {"Taxon": "Spanish", "Segments": [48, 6, 32, 19, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 9, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 9, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 6, 32, 14, -1, -1]}
  ]
},
{
  "Name": "Earth", "Data": [
    {"Taxon": "Latin", "Segments": [20, -1, 0, 33, 33, 27]},
    {"Taxon": "French", "Segments": [20, -1, 0, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 12, 0, -1, 33, 27]},
    {"Taxon": "Italian", "Segments": [20, -1, 31, 33, 33, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, -1, 0, -1, 36, 29]},
    {"Taxon": "Portuguese", "Segments": [20, -1, 31, -1, 36, 29]},
    {"Taxon": "Catalan", "Segments": [20, -1, 31, -1, 33, 4]},
    {"Taxon": "Walloon", "Segments": [20, -1, 57, -1, 36, -1]},
    {"Taxon": "Friulian", "Segments": [20, 12, 31, -1, 33, 0]},
    {"Taxon": "Romanian", "Segments": [52, -1, 27, -1, 33, 4]}
  ]
},
{
  "Name": "Cloud", "Data": [
    {"Taxon": "Latin", "Segments": [13, 21, 19, 25, 14]},
    {"Taxon": "French", "Segments": [13, 22, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, 15, 19, 0, -1]},
    {"Taxon": "Italian", "Segments": [13, 15, 19, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 15, 18, 41, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 15, 18, 54, -1]}
  ]
},
{
  "Name": "Cloud-Secondary", "Data": [
    {"Taxon": "Latin", "Segments": [13, 21, 19, 7, 32, 15, 14]},
    {"Taxon": "Spanish", "Segments": [13, 15, 19, -1, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 15, 18, 6, 32, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 15, 19, 32, 27, 23, 15]},
    {"Taxon": "Portuguese", "Segments": [13, 15, 19, 32, 27, 23, 15]},
    {"Taxon": "Catalan", "Segments": [13, 15, 67, 15, 68, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 21, -1, -1, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 6, -1, -1, 33, -1, -1]}
  ]
},
{
  "Name": "Fog", "Data": [
    {"Taxon": "Latin", "Segments": [51, 53, 32, 37, 1, 7, 13, 0, 26]},
    {"Taxon": "Spanish", "Segments": [51, 27, 32, 7, -1, -1, 13, 27, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 32, 7, 10, 7, 13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 32, 7, 3, 41, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 32, 7, 3, 54, -1, -1, -1]}
  ]
},
{
  "Name": "Fog-Nebula", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 0, -1, 19, 15, 32, 27]},
    {"Taxon": "French", "Segments": [13, 12, 9, -1, -1, -1, 32, 22]},
    {"Taxon": "Spanish", "Segments": [13, 12, 0, -1, 19, -1, 32, 27]},
    {"Taxon": "Italian", "Segments": [13, -1, 0, 19, 19, -1, 12, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 31, -1, 18, 8, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 31, -1, 18, 8, -1, 29]},
    {"Taxon": "Catalan", "Segments": [13, -1, 0, -1, -1, 8, 32, 4]},
    {"Taxon": "Romanian", "Segments": [13, 0, 1, 15, 33, 4, -1, -1]}
  ]
},
{
  "Name": "Fog-Tenebrae", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 13, 25, 19, 33, 56]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Italian", "Segments": [20, 57, 13, 0, 19, 33, 0]}
}],
{
  "Name": "Fog-Tenebras", "Data": [
    {"Taxon": "Latin", "Segments": [20, -1, 0, 13, -1, 25, 19, 33, 53, 14]},
    {"Taxon": "French", "Segments": [20, -1, 0, 13, -1, 31, 19, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, -1, 7, 13, 12, 0, 19, 32, 27, 14]},
    {"Taxon": "Italian", "Segments": [20, -1, 57, 13, -1, 0, 19, 33, 0, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 28, -1, -1, -1, 31, 18, -1, 29, 16]},
    {"Taxon": "Catalan", "Segments": [20, -1, 4, 13, -1, 0, 19, 28, 4, 14]}
  ]
},
{
  "Name": "Fog-Fumata", "Data": [
    {"Taxon": "Latin", "Segments": [24, 21, 26, 53, 20, 27]},
    {"Taxon": "French", "Segments": [24, 22, 26, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 15, 26, 27, 20, 27]},
    {"Taxon": "Italian", "Segments": [24, 15, 26, 53, 20, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 15, 26, 27, 14, 29]},
    {"Taxon": "Portuguese", "Segments": [24, 15, 26, 27, 14, 29]},
    {"Taxon": "Friulian", "Segments": [24, 15, 26, 27, 20, 0]}
  ]
},
{
  "Name": "Fog-Caecia", "Data": [
    {"Taxon": "Latin", "Segments": [51, 56, 51, 7, 27]},
    {"Taxon": "Romanian", "Segments": [46, 80, 46, -1, 4]}
  ]
},
{
  "Name": "Sky", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 56, 32, 15, 26]},
    {"Taxon": "French", "Segments": [14, 12, 31, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [58, 12, 0, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [46, -1, 31, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 31, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 31, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, -1, 31, 32, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, -1, 37, 36, -1, -1]},
    {"Taxon": "Friulian", "Segments": [46, -1, 37, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [46, -1, 0, 28, -1, -1]}
  ]
},
{
  "Name": "Wind", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 0, 13, 20, 15, 26]},
    {"Taxon": "French", "Segments": [18, -1, 43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 12, 0, 13, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [18, -1, 31, 13, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 64, -1, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [18, -1, 64, -1, 20, 15, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 0, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [18, -1, 64, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [18, -1, 7, 13, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, -1, 47, 13, 20, -1, -1]}
  ]
},
{
  "Name": "Snow", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 7, 8, 0, 26]},
    {"Taxon": "Spanish", "Segments": [13, 12, 0, 19, 0, -1]},
    {"Taxon": "Italian", "Segments": [13, -1, 0, 18, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 31, 18, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 31, 18, 47, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 0, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, 37, 24, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, -1, 25, 24, -1, -1]},
```

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```
{
  "Taxon": "Romanian", "Segments": [13, -1, 80, -1, -1, -1]}
}],
{
  "Name": "Ice", "Data": [
    {"Taxon": "Latin", "Segments": [1, 0, 32, 21]},
    {"Taxon": "French", "Segments": [3, 31, 32, -1]},
    {"Taxon": "Spanish", "Segments": [5, 0, 32, 6]},
    {"Taxon": "Italian", "Segments": [10, 31, 32, 6]},
    {"Taxon": "Catalan", "Segments": [3, 31, 68, -1]},
    {"Taxon": "Romanian", "Segments": [10, 0, 33, -1]}
  ]
},
{
  "Name": "Ice-Glacies", "Data": [
    {"Taxon": "French", "Segments": [1, 32, 27, -1, 14, -1]},
    {"Taxon": "Italian", "Segments": [1, 12, 27, 20, 46, 27]},
    {"Taxon": "Catalan", "Segments": [1, 32, 27, -1, 14, -1]},
    {"Taxon": "Walloon", "Segments": [1, 32, 31, -1, 14, -1]},
    {"Taxon": "Friulian", "Segments": [1, 32, 27, -1, 46, 0]},
    {"Taxon": "Romanian", "Segments": [1, -1, 80, -1, 52, 4]}
  ]
},
{
  "Name": "Smoke", "Data": [
    {"Taxon": "Latin", "Segments": [24, 21, 26, 15, 14]},
    {"Taxon": "Spanish", "Segments": [-1, 15, 26, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 15, 26, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 15, 26, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 15, 26, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, 15, 26, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 15, 26, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 15, 26, -1, -1]}
  ]
},
{
  "Name": "Fire-Focus", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 51, 15, 26]},
    {"Taxon": "French", "Segments": [24, -1, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 8, 0, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 8, 9, 51, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 6, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 6, 85, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 9, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 72, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, -1, 21, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 6, 51, -1, -1]}
  ]
},
{
  "Name": "Ash", "Data": [
    {"Taxon": "Latin", "Segments": [51, 7, 13, 0, -1, 33, 0, 26]},
    {"Taxon": "French", "Segments": [14, 43, -1, -1, 23, 36, -1, -1]},
    {"Taxon": "Italian", "Segments": [46, 0, 13, 0, -1, 33, 0, -1]},
    {"Taxon": "Catalan", "Segments": [14, 31, 13, -1, 23, 33, 4, -1]},
    {"Taxon": "Walloon", "Segments": [14, 88, -1, -1, 23, -1, -1, -1]}
  ]
},
{
  "Name": "Ash-Cinisia", "Data": [
    {"Taxon": "Spanish", "Segments": [58, 0, 13, 7, 58, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 44, -1, -1, 49, 29, 16]},
    {"Taxon": "Portuguese", "Segments": [14, 44, -1, -1, 49, 29, 16]},
    {"Taxon": "Friulian", "Segments": [46, 7, 13, 7, 49, 31, -1]},
    {"Taxon": "Romanian", "Segments": [46, 0, 13, 15, 16, 4, -1]}
  ]
},
{
  "Name": "Road", "Data": [
    {"Taxon": "Latin", "Segments": [8, 7, 27]}
  ]
}
```

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```
{
  "Taxon": "French", "Segments": [18, 8, 27]},
  "Taxon": "Spanish", "Segments": [19, 7, 27]},
  "Taxon": "Italian", "Segments": [18, 7, 27]},
  "Taxon": "PortugueseBrazil", "Segments": [18, 7, 29]},
  "Taxon": "Portuguese", "Segments": [18, 7, 29]},
  "Taxon": "Catalan", "Segments": [19, 7, 4]}
}],
{
  "Name": "Road-Strata", "Data": [
    "Taxon": "Latin", "Segments": [-1, 14, 20, 33, 53, 20, 27]},
    "Taxon": "Spanish", "Segments": [0, 14, 20, 28, 27, 23, 27]},
    "Taxon": "Italian", "Segments": [-1, 14, 20, 33, 27, 23, 27]},
    "Taxon": "PortugueseBrazil", "Segments": [7, 14, 20, 28, 27, 23, 29]},
    "Taxon": "Portuguese", "Segments": [7, 16, 20, 28, 27, 50, 29]}
  ]},
{
  "Name": "Road-Camminus", "Data": [
    "Taxon": "Latin", "Segments": [51, 27, 26, 26, 37, 13, 15, 26]},
    "Taxon": "French", "Segments": [16, 4, -1, 26, 62, -1, -1, -1]},
    "Taxon": "Spanish", "Segments": [51, 27, -1, 26, 7, 13, 6, -1]},
    "Taxon": "Italian", "Segments": [51, 27, 26, 26, 7, 13, 6, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [51, 27, -1, 26, 44, 38, 15, -1]},
    "Taxon": "Portuguese", "Segments": [51, 29, -1, 26, 7, 38, 15, -1]},
    "Taxon": "Catalan", "Segments": [51, 4, -1, 26, 7, -1, -1, -1]}
  ]},
{
  "Name": "Mountain", "Data": [
    "Taxon": "Latin", "Segments": [26, 6, 13, 20, 0, 26]},
    "Taxon": "French", "Segments": [26, 42, -1, -1, -1, -1]},
    "Taxon": "Spanish", "Segments": [26, 6, 13, 20, 0, -1]},
    "Taxon": "Italian", "Segments": [26, 6, 13, 20, 0, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [26, 61, -1, 46, 7, -1]},
    "Taxon": "Portuguese", "Segments": [26, 61, -1, 20, 47, -1]},
    "Taxon": "Catalan", "Segments": [26, 15, 13, -1, -1, -1]},
    "Taxon": "Friulian", "Segments": [26, 9, 13, 20, -1, -1]},
    "Taxon": "Romanian", "Segments": [26, 15, 13, 20, 31, -1]}
  ]},
{
  "Name": "Mountain-Montanea", "Data": [
    "Taxon": "Latin", "Segments": [26, 6, 13, 20, 53, -1, 13, 0, 27]},
    "Taxon": "French", "Segments": [26, 61, -1, 20, 27, -1, 38, -1, -1]},
    "Taxon": "Spanish", "Segments": [26, 6, 13, 20, 27, -1, 38, -1, 27]},
    "Taxon": "Italian", "Segments": [26, 6, 13, 20, 27, 38, 38, -1, 27]},
    "Taxon": "PortugueseBrazil", "Segments": [26, 61, -1, 20, 45, -1, 38, -1, 29]},
    "Taxon": "Portuguese", "Segments": [26, 61, -1, 20, 29, -1, 38, -1, 29]},
    "Taxon": "Catalan", "Segments": [26, 15, 13, 20, 27, -1, 38, -1, 4]},
    "Taxon": "Walloon", "Segments": [26, 61, -1, 20, 27, -1, 38, -1, -1]},
    "Taxon": "Friulian", "Segments": [26, 9, 13, 20, 27, -1, 38, 0, -1]}
  ]},
{
  "Name": "Night", "Data": [
    "Taxon": "Latin", "Segments": [13, -1, 6, 65, 20, 0, 26]},
    "Taxon": "French", "Segments": [13, 69, 7, -1, -1, -1, -1]},
    "Taxon": "Spanish", "Segments": [13, -1, 6, -1, 46, 0, -1]},
    "Taxon": "Italian", "Segments": [13, -1, 9, 20, 20, 0, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [13, -1, 17, 20, 47, -1, -1]},
    "Taxon": "Portuguese", "Segments": [13, -1, 17, 20, 47, -1, -1]},
    "Taxon": "Catalan", "Segments": [13, -1, 7, -1, 20, -1, -1]},
    "Taxon": "Walloon", "Segments": [13, -1, 22, -1, 20, -1, -1]},
    "Taxon": "Friulian", "Segments": [38, -1, 9, -1, 20, -1, -1]},
    "Taxon": "Romanian", "Segments": [13, -1, 39, 48, 20, 0, -1]}
  ]}
}
```

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```
}},
{"Name": "Day", "Data": [
  {"Taxon": "Latin", "Segments": [23, 7, 25, 14]},
  {"Taxon": "Spanish", "Segments": [23, 7, 27, -1]},
  {"Taxon": "Italian", "Segments": [23, 7, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [23, 7, 29, -1]},
  {"Taxon": "Portuguese", "Segments": [23, 7, 29, -1]},
  {"Taxon": "Catalan", "Segments": [23, 7, 4, -1]},
  {"Taxon": "Walloon", "Segments": [10, 21, -1, -1]},
  {"Taxon": "Friulian", "Segments": [23, 7, -1, -1]},
  {"Taxon": "Romanian", "Segments": [49, 7, -1, -1]}
]},
{"Name": "Day-Diurnus", "Data": [
  {"Taxon": "Latin", "Segments": [23, 7, 15, 33, 13, 15, 26]},
  {"Taxon": "French", "Segments": [3, -1, 15, 36, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [23, 12, 15, 28, 13, 6, -1]},
  {"Taxon": "Italian", "Segments": [10, -1, 6, 33, 13, 6, -1]},
  {"Taxon": "Catalan", "Segments": [3, -1, 6, 28, 13, -1, -1]},
  {"Taxon": "Walloon", "Segments": [10, -1, 21, -1, -1, -1, -1]}
]},
{"Name": "Day-Diurna", "Data": [
  {"Taxon": "PortugueseBrazil", "Segments": [3, 9, 36, 13, 27]},
  {"Taxon": "Portuguese", "Segments": [3, 9, 36, 13, 27]}
]},
{"Name": "Day-Diurnata", "Data": [
  {"Taxon": "Latin", "Segments": [23, 7, 15, 33, 13, 53, 20, 27]},
  {"Taxon": "French", "Segments": [3, -1, 15, 36, 13, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [34, -1, 6, 28, 13, 27, 23, 27]},
  {"Taxon": "Italian", "Segments": [10, 6, 33, 13, 27, 20, 27, -1]},
  {"Taxon": "Friulian", "Segments": [71, -1, 6, 33, 13, 27, 23, 0]}
]},
{"Name": "Year", "Data": [
  {"Taxon": "Latin", "Segments": [27, 13, 13, 15, 26]},
  {"Taxon": "French", "Segments": [43, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [27, -1, 38, 6, -1]},
  {"Taxon": "Italian", "Segments": [27, 13, 13, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [29, -1, 13, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [29, -1, 13, 15, -1]},
  {"Taxon": "Catalan", "Segments": [27, -1, 38, -1, -1]},
  {"Taxon": "Walloon", "Segments": [43, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [27, -1, 75, -1, -1]},
  {"Taxon": "Romanian", "Segments": [27, 13, -1, -1, -1]}
]},
{"Name": "Name-Nomen", "Data": [
  {"Taxon": "Latin", "Segments": [13, 2, 26, 0, 13]},
  {"Taxon": "French", "Segments": [13, 42, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [13, 2, 26, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, 6, 26, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [13, 6, 26, 47, -1]},
  {"Taxon": "Catalan", "Segments": [13, 9, 26, -1, -1]},
  {"Taxon": "Walloon", "Segments": [13, 61, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, 9, 75, -1, -1]},
  {"Taxon": "Romanian", "Segments": [13, 15, 26, 0, -1]}
]},
{"Name": "Name-Nominem", "Data": [
  {"Taxon": "Latin", "Segments": [13, 2, 26, 7, 13, -1, 0, 26]},
```

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```
{
  "Taxon": "Spanish", "Segments": [13, 6, 26, -1, 19, 28, 0, -1]}
}],
{
  "Name": "Tongue", "Data": [
    {"Taxon": "Latin", "Segments": [32, 7, 13, 74, -1, 27]},
    {"Taxon": "French", "Segments": [32, 43, -1, 1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 0, 75, 1, 8, 27]},
    {"Taxon": "Italian", "Segments": [32, 7, 13, 1, 8, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 44, -1, 1, 8, 29]},
    {"Taxon": "Portuguese", "Segments": [32, 44, -1, 1, 8, 29]},
    {"Taxon": "Walloon", "Segments": [32, 89, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 31, 13, 1, -1, 31]},
    {"Taxon": "Romanian", "Segments": [32, 7, 26, 19, -1, 4]}
  ]
},
{
  "Name": "ToDrink", "Data": [
    {"Taxon": "Latin", "Segments": [19, -1, 7, 19, 0, 33, 0]},
    {"Taxon": "French", "Segments": [19, 8, 84, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [19, -1, 0, 19, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 0, -1, -1, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 0, 19, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, 47, 67, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 31, 8, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [19, 72, -1, -1, 36, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, -1, 0, 18, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 80, -1, -1, -1, -1]}
  ]
},
{
  "Name": "ToEat", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 26, 0, 23, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [51, 6, 26, 0, -1, -1, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 26, 0, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 26, -1, -1, 0, 28, -1]}
  ]
},
{
  "Name": "ToEat-Manducare", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 13, 23, 15, 51, 53, 33, 0]},
    {"Taxon": "French", "Segments": [26, 43, -1, 3, -1, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 13, 23, 15, 51, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 13, 10, -1, -1, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 45, -1, 3, -1, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 45, -1, 3, -1, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 4, 38, 3, -1, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [26, 27, 38, -1, -1, -1, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, 75, 83, -1, -1, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 47, 13, -1, -1, 51, 27, -1, -1]}
  ]
},
{
  "Name": "ToBite", "Data": [
    {"Taxon": "Latin", "Segments": [26, -1, 6, 33, 23, 25, 33, 0]},
    {"Taxon": "French", "Segments": [26, -1, 6, 36, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, -1, 6, 28, 50, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, -1, 9, 33, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, -1, 6, 36, 23, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, -1, 15, 28, 50, 0, 28, -1]},
    {"Taxon": "Friulian", "Segments": [26, 8, 27, 33, 23, 7, -1, -1]}
  ]
},
{
  "Name": "ToBite-Morsicare", "Data": [
    {"Taxon": "Latin", "Segments": [26, 6, 33, 14, 7, 51, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [26, 6, -1, 14, -1, 51, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 33, 14, 7, 51, 27, 28, 0]}
  ]
}
```


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```
{
  "Taxon": "PortugueseBrazil", "Segments": [26, 15, -1, 14, 4, 1, 27, -1, -1]},
  "Taxon": "Portuguese", "Segments": [26, 15, -1, 14, 4, 1, 27, 33, -1]},
  "Taxon": "Catalan", "Segments": [26, 15, -1, 14, 4, 85, 27, -1, -1]},
  "Taxon": "Romanian", "Segments": [26, 15, 33, 14, 0, 51, 27, -1, -1]}
}],
{
  "Name": "ToSuck", "Data": [
    {"Taxon": "Latin", "Segments": [14, 21, 1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [14, 22, 14, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 15, 1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 15, 1, 27, 28, -1]},
    {"Taxon": "Walloon", "Segments": [14, 22, 14, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 15, 65, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToSpit", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 13, 14, 48, 15, 0, 33, 0]},
    {"Taxon": "French", "Segments": [51, 42, -1, 14, 48, 22, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 15, -1, 14, 48, 7, 36, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, -1, 16, 48, 7, 28, -1, -1]}
  ]
},
{
  "Name": "ToSpit-Exconspuere", "Data": [
    {"Taxon": "Spanish", "Segments": [0, 14, 51, 15, -1, 48, 7, 28]},
    {"Taxon": "Catalan", "Segments": [4, 14, 51, 15, -1, 48, 7, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 51, 15, 12, 48, 27, -1]}
  ]
},
{
  "Name": "ToSpit-Sputare", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 15, 20, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 15, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 15, 20, 27, 28, 0]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 15, 23, 53, -1, -1]}
  ]
},
{
  "Name": "ToVomit", "Data": [
    {"Taxon": "Latin", "Segments": [8, 6, 26, 0, 33, 0]},
    {"Taxon": "French", "Segments": [18, 6, 26, 7, 36, -1]},
    {"Taxon": "Italian", "Segments": [18, 9, 26, 0, 33, 0]},
    {"Taxon": "Walloon", "Segments": [18, 2, 26, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 39, 26, 0, -1, -1]}
  ]
},
{
  "Name": "ToBlow", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 24, 24, 32, 53, 33, 0]},
    {"Taxon": "French", "Segments": [14, 15, -1, 24, 32, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 24, 24, 12, 27, 33, 0]},
    {"Taxon": "Walloon", "Segments": [14, 15, -1, 24, 32, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 6, -1, 24, 32, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, -1, 24, 32, 27, -1, -1]}
  ]
},
{
  "Name": "ToBreathe", "Data": [
    {"Taxon": "Latin", "Segments": [33, 0, 14, 48, 37, 33, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [33, 0, 14, 48, 7, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [33, 0, 14, 48, 7, 33, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 0, 14, 48, 7, 28, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 47, 16, 48, 7, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [33, 4, 14, 48, 7, 28, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 0, 14, 48, 7, 33, 53, -1, -1]}
  ]
},
{
  "Name": "ToLaugh", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [33, 37, -1, 23, 25, 33, 0]},
  "Taxon": "French", "Segments": [36, 7, -1, -1, -1, 36, -1]},
  "Taxon": "Spanish", "Segments": [33, 0, -1, -1, 7, 28, -1]},
  "Taxon": "Italian", "Segments": [33, 37, -1, 23, 0, 28, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [36, 7, -1, -1, -1, 36, -1]},
  "Taxon": "Portuguese", "Segments": [36, 7, -1, -1, -1, 28, -1]},
  "Taxon": "Catalan", "Segments": [33, 7, 8, -1, -1, 28, 4]},
  "Taxon": "Walloon", "Segments": [36, 37, -1, -1, -1, 36, -1]},
  "Taxon": "Friulian", "Segments": [33, 7, -1, 23, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [28, 47, -1, 23, 0, -1, -1]}
}],
{
  "Name": "ToSee", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 7, 23, 25, 33, 0]},
    {"Taxon": "French", "Segments": [18, 8, 27, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [19, -1, -1, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [18, -1, 0, 23, 0, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, -1, -1, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [18, -1, -1, -1, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 31, 8, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [18, -1, 37, -1, -1, 55, -1]},
    {"Taxon": "Friulian", "Segments": [18, 12, 6, 23, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, -1, 0, 23, 80, -1, -1]}
  ]
},
{
  "Name": "ToHear", "Data": [
    {"Taxon": "Latin", "Segments": [78, -1, 23, 37, 33, 0]},
    {"Taxon": "French", "Segments": [8, -1, -1, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [6, -1, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [15, -1, 23, 7, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 8, 18, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [6, 8, 18, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [15, -1, -1, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [61, -1, -1, 55, -1, -1]},
    {"Taxon": "Friulian", "Segments": [15, 32, 23, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 15, 49, 7, -1, -1]}
  ]
},
{
  "Name": "ToKnow", "Data": [
    {"Taxon": "Latin", "Segments": [14, 51, 37, 33, 0]},
    {"Taxon": "Romanian", "Segments": [16, 20, 7, -1, -1]}
  ]
},
{
  "Name": "ToKnow-Sapere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, 48, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [14, 27, 18, 8, 27, 36, -1]},
    {"Taxon": "Spanish", "Segments": [14, 27, 19, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, 27, 48, -1, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 27, 19, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 29, 19, -1, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 67, -1, 31, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 27, 18, -1, 72, 55, -1]},
    {"Taxon": "Friulian", "Segments": [14, 27, 18, -1, 25, -1, -1]}
  ]
},
{
  "Name": "ToKnow-Cognoscere", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 1, 13, 2, 14, 51, 0, 33, 0]},
    {"Taxon": "French", "Segments": [51, 9, -1, 13, 31, -1, 20, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, -1, 13, 6, 58, 0, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [51, 6, -1, 13, 6, 16, 16, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, -1, 38, 0, 14, -1, 0, 36, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [51, 15, -1, 38, 47, 14, -1, 0, 28, -1]},
  "Taxon": "Catalan", "Segments": [51, 15, -1, 13, 31, 16, -1, 4, -1, -1]},
  "Taxon": "Walloon", "Segments": [51, 7, -1, 13, 9, 40, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 6, -1, 38, 6, 14, -1, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [51, 15, -1, 13, 39, 16, 20, 0, -1, -1]}
}],
{
  "Name": "ToThink", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 2, 1, 7, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [51, 69, -1, -1, 7, 23, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, -1, -1, 7, 23, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 6, 10, 7, 20, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 15, 3, 7, 20, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 15, 3, 7, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 15, -1, 12, 23, 27, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, -1, 15, 10, 0, 20, 27, -1, -1]}
  ]
},
{
  "Name": "ToThink-Pensare", "Data": [
    {"Taxon": "Latin", "Segments": [48, 25, 13, 14, 53, 33, 0]},
    {"Taxon": "French", "Segments": [48, 43, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 0, 13, 14, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 0, 13, 14, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 64, -1, 14, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 64, -1, 14, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [48, 4, 13, 14, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 62, -1, 14, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 0, 75, 14, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 4, -1, 14, 27, -1, -1]}
  ]
},
{
  "Name": "ToSmell-Sentire", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 13, 20, 37, 33, 0]},
    {"Taxon": "French", "Segments": [14, 43, -1, 20, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [14, 0, 13, 20, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 13, 20, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 64, -1, 46, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 64, -1, 20, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 13, 20, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 62, -1, 20, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 7, 13, 20, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 7, 26, 52, 7, -1, -1]}
  ]
},
{
  "Name": "ToSmell-Olere", "Data": [
    {"Taxon": "Latin", "Segments": [6, 32, 25, 33, 0]},
    {"Taxon": "Spanish", "Segments": [6, 32, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [6, 32, 7, 33, 0]},
    {"Taxon": "Catalan", "Segments": [15, 32, 15, 28, 27]}
  ]
},
{
  "Name": "ToSmell-Odorare", "Data": [
    {"Taxon": "Latin", "Segments": [6, 23, 2, 33, 53, 33, 0]},
    {"Taxon": "Italian", "Segments": [6, 23, 6, 33, 27, 33, 0]}
  ]
},
{
  "Name": "ToSmell-Fragrare", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 53, 1, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 32, 31, -1, 36, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, 27, 1, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [16, -1, 59, -1, 28, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [16, -1, 60, -1, 28, 27, 28, -1]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [24, 32, 4, 12, 28, 27, -1, -1]}
}],
{
  "Name": "ToFear", "Data": [
    {"Taxon": "Latin", "Segments": [20, 7, 26, 25, 33, 0]},
    {"Taxon": "Spanish", "Segments": [20, 0, 26, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 0, 26, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 0, 26, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 47, 26, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 0, 26, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 0, 26, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 0, 26, 0, -1, -1]}
  ]
},
{
  "Name": "ToFear-Tremere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 33, 0, 26, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [51, 36, 64, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 28, 0, 26, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 33, 0, 26, -1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 28, 0, 26, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 28, 47, 26, -1, 0, 28, -1]},
    {"Taxon": "Friulian", "Segments": [20, 33, 7, 26, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToSleep", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 6, 33, 26, 37, 33, 0]},
    {"Taxon": "French", "Segments": [23, -1, 9, 36, 26, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [23, -1, 6, 28, 26, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 6, 33, 26, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, -1, 6, 36, 26, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, -1, 15, 28, 26, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 15, 33, 26, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 8, 27, 36, 26, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, -1, 15, 33, 26, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 6, 33, 26, 7, -1, -1]}
  ]
},
{
  "Name": "ToLive", "Data": [
    {"Taxon": "Latin", "Segments": [8, 37, 8, 0, 33, 0]},
    {"Taxon": "French", "Segments": [18, 7, 18, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [19, 7, 19, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [18, 7, 18, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 7, 18, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 7, 18, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, 7, 8, -1, 28, 4]},
    {"Taxon": "Friulian", "Segments": [18, 7, 18, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 7, -1, 27, -1, -1]}
  ]
},
{
  "Name": "ToDie", "Data": [
    {"Taxon": "French", "Segments": [26, 15, 36, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, 6, 28, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 33, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 6, 36, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 15, 36, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 15, 28, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [26, 9, 55, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 15, 33, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 15, 33, 7, -1, -1]}
  ]
},
{
  "Name": "ToKill", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [13, -1, 0, 51, 53, 33, 0]},
  "Taxon": "French", "Segments": [13, 8, 56, 0, -1, -1, -1]},
  "Taxon": "Catalan", "Segments": [13, -1, 4, 1, 27, -1, -1]},
  "Taxon": "Romanian", "Segments": [13, -1, 0, 51, 27, -1, -1]}
}],
{
  "Name": "ToKill-Adnecare", "Data": [
    {"Taxon": "Spanish", "Segments": [27, -1, 13, 0, 1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [27, 13, 13, 0, 1, 27, 33, 0]}
  ]
},
{
  "Name": "ToKill-Tutari", "Data": [
    {"Taxon": "Latin", "Segments": [20, 21, -1, 20, 53, 33, 7]},
    {"Taxon": "French", "Segments": [20, -1, 69, -1, 0, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 15, 8, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToKill-Mactare", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 51, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [26, 27, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, -1, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 27, -1, 20, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 29, -1, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 4, -1, 20, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, 46, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToKill-Occidere", "Data": [
    {"Taxon": "Latin", "Segments": [6, 51, 51, 37, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [9, 51, 14, 7, -1, -1, 36, -1]},
    {"Taxon": "Italian", "Segments": [15, 20, 46, 7, 23, 0, 28, 0]},
    {"Taxon": "Catalan", "Segments": [15, 51, 14, 7, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, -1, 46, 7, 23, 0, -1, -1]}
  ]
},
{
  "Name": "ToFight", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 1, 13, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [48, 15, -1, 38, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 15, 38, 38, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [48, 15, -1, 38, 27, -1, -1]}
  ]
},
{
  "Name": "ToFight-Battuere", "Data": [
    {"Taxon": "Latin", "Segments": [19, 27, 20, 20, 15, 0, 33, 0]},
    {"Taxon": "French", "Segments": [19, 27, 20, -1, -1, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 27, -1, 20, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [19, 27, 20, 20, -1, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 27, -1, 20, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [19, 29, -1, 20, -1, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, 27, -1, 20, -1, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [19, 27, 20, -1, 0, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 27, 20, -1, 7, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, 27, 20, -1, 0, -1, -1, -1]}
  ]
},
{
  "Name": "ToHunt-Captiare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 48, 20, 7, 53, 33, 0]},
    {"Taxon": "French", "Segments": [16, 27, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, -1, 58, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 20, 46, -1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, -1, 14, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 29, -1, 14, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, -1, 14, -1, 27, -1, -1]},
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Walloon", "Segments": [46, 31, -1, 14, -1, 37, -1, -1]},
  "Taxon": "Friulian", "Segments": [65, 27, -1, 46, -1, 53, -1, -1]}
}],
{
  "Name": "ToHit", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 32, 14, 53, 33, 0]},
    {"Taxon": "French", "Segments": [48, 15, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 15, -1, 34, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 15, 32, 14, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 15, -1, 16, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 15, -1, 16, 27, 28, -1]},
    {"Taxon": "Friulian", "Segments": [48, 15, 32, 14, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 15, 32, 14, 27, -1, -1]}
  ]
},
{
  "Name": "ToCut", "Data": [
    {"Taxon": "Latin", "Segments": [14, -1, 0, 51, 53, 33, 0]},
    {"Taxon": "French", "Segments": [14, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, -1, 0, 1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, -1, 0, 1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, 1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 47, 85, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, -1, 4, 85, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, -1, 0, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToCut-Curtare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 15, 33, 20, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [51, 6, 28, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 36, 20, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 28, 20, 27, 28, -1]}
  ]
},
{
  "Name": "ToCut-Excurtare", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 51, 15, 33, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 51, 15, 36, 20, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 51, 6, 33, 20, 27, 33, 0]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 14, 51, 15, 33, 20, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 51, 15, 33, 20, 27, -1, -1]}
  ]
},
{
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    {"Taxon": "Latin", "Segments": [20, 53, -1, 32, 7, 53, 33, 0]},
    {"Taxon": "French", "Segments": [20, 84, 12, -1, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 27, -1, 34, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 27, -1, 35, 35, 53, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 27, -1, 35, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 29, -1, 35, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 4, -1, 35, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 31, -1, -1, 12, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 27, -1, -1, 12, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 4, -1, -1, 12, 27, -1, -1]}
  ]
},
{
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    {"Taxon": "Spanish", "Segments": [23, 7, 19, 7, 23, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 7, 18, 7, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 7, 18, 7, 10, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 18, 7, 50, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 7, 19, 7, 23, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 7, 18, 7, 23, 7, -1, -1]},
  ]
}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian", "Segments": [23, 7, 18, 7, 23, 0, -1, -1]}
}},
{"Name": "ToSplit-Scindere", "Data": [
  {"Taxon": "Latin", "Segments": [14, 51, 7, 13, 23, 0, 33, 0]},
  {"Taxon": "French", "Segments": [14, -1, 62, -1, 23, 0, -1, -1]},
  {"Taxon": "Italian", "Segments": [16, -1, 7, 13, 23, 0, 33, 0]}
]},
{"Name": "ToSplit-Findere", "Data": [
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  {"Taxon": "French", "Segments": [24, 43, -1, 23, -1, 36, -1]},
  {"Taxon": "Spanish", "Segments": [-1, 0, 13, 23, 0, 28, -1]},
  {"Taxon": "Italian", "Segments": [24, 31, 13, 23, 0, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [24, 64, -1, 23, 0, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [24, 64, -1, 23, 0, 28, -1]},
  {"Taxon": "Catalan", "Segments": [24, 31, 13, 23, -1, 28, 4]},
  {"Taxon": "Walloon", "Segments": [24, 62, -1, 20, -1, -1, -1]}
]},
{"Name": "ToSplit-Partire", "Data": [
  {"Taxon": "Latin", "Segments": [48, 27, 33, 20, 37, 33, 0]},
  {"Taxon": "French", "Segments": [48, 27, 36, 20, 7, 36, -1]},
  {"Taxon": "Spanish", "Segments": [48, 27, 28, 20, 7, 28, -1]},
  {"Taxon": "Italian", "Segments": [48, 27, 33, 20, 7, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, 27, 36, 46, 7, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [48, 29, 28, 20, 7, 28, -1]},
  {"Taxon": "Catalan", "Segments": [48, 4, 33, 20, 7, -1, -1]},
  {"Taxon": "Walloon", "Segments": [48, 73, 55, 20, 7, -1, -1]},
  {"Taxon": "Friulian", "Segments": [48, 27, 33, 20, 37, -1, -1]}
]},
{"Name": "ToSplit-Separare", "Data": [
  {"Taxon": "Latin", "Segments": [14, 25, 48, 27, 33, 53, 33, 0, -1]},
  {"Taxon": "French", "Segments": [14, 4, -1, 18, -1, -1, -1, 36, 0]},
  {"Taxon": "Spanish", "Segments": [14, 0, 48, 27, 28, 27, 28, -1, -1]},
  {"Taxon": "Italian", "Segments": [14, 0, 48, 27, 33, 27, 33, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 0, 48, 27, 28, 27, 36, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 47, 48, 29, 28, 27, 28, -1, -1]},
  {"Taxon": "Catalan", "Segments": [14, 4, 48, 4, 28, 27, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [14, 0, 48, 27, 33, 53, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [14, 0, 48, 27, 33, 27, -1, -1, -1]}
]},
{"Name": "ToStab", "Data": [
  {"Taxon": "Latin", "Segments": [48, -1, 15, 13, 1, 0, 33, 0]},
  {"Taxon": "French", "Segments": [48, 8, 62, -1, 23, -1, 36, -1]},
  {"Taxon": "Italian", "Segments": [48, -1, 15, 13, 10, 0, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 90, -1, 3, 7, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [48, -1, 90, -1, 3, 7, 28, -1]},
  {"Taxon": "Catalan", "Segments": [48, -1, 15, 38, -1, 7, -1, -1]},
  {"Taxon": "Romanian", "Segments": [48, 15, 13, 10, 0, -1, -1, -1]}
]},
{"Name": "ToStab-Iugulare", "Data": [
  {"Taxon": "Latin", "Segments": [12, 15, 1, 15, 32, 53, 33, 0]},
  {"Taxon": "French", "Segments": [3, 22, 1, 22, 32, 0, -1, -1]},
  {"Taxon": "Italian", "Segments": [12, 15, 1, 15, 32, 53, 33, 0]}
]},
{"Name": "ToScratch", "Data": [
  {"Taxon": "Latin", "Segments": [33, 53, 23, 0, 33, 0]},
  {"Taxon": "Spanish", "Segments": [33, 27, -1, 0, 28, -1]},
```

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```
{
  "Taxon": "Italian", "Segments": [33, 27, 23, 0, 33, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [36, 27, -1, 0, 36, -1]},
  "Taxon": "Portuguese", "Segments": [36, 29, -1, 0, 28, -1]},
  "Taxon": "Catalan", "Segments": [33, 27, 8, -1, 28, 4]},
  "Taxon": "Friulian", "Segments": [33, 27, 23, 53, -1, -1]},
  "Taxon": "Romanian", "Segments": [33, 27, 23, 0, -1, -1]}
}],
{
  "Name": "ToScratch-Rasare", "Data": [
    {"Taxon": "French", "Segments": [36, 84, 49, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 27, 14, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [33, 27, 14, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 27, 49, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 29, 49, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [33, 4, 49, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 27, 14, 53, -1, -1]}
  ]
},
{
  "Name": "ToScratch-Rasicare", "Data": [
    {"Taxon": "Spanish", "Segments": [33, 27, 14, 51, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 27, 16, 51, 27, 36]},
    {"Taxon": "Portuguese", "Segments": [36, 29, 16, 51, 27, 28]},
    {"Taxon": "Catalan", "Segments": [33, 4, 14, 51, 27, -1]}
  ]
},
{
  "Name": "ToScratch-Coctiare", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 14, 27, 91]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 14, 27, 28]}
  ]
},
{
  "Name": "ToDig", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [24, 8, 7, -1, -1, 36, -1]}
  ]
},
{
  "Name": "ToDig-Cavare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 8, 53, 33, 0]},
    {"Taxon": "French", "Segments": [16, 4, 18, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 19, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 18, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 29, 18, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 18, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, 19, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [83, 27, 18, 53, -1, -1]}
  ]
},
{
  "Name": "ToDig-Excavare", "Data": [
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    {"Taxon": "Spanish", "Segments": [0, 14, 51, 27, 19, 27, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 51, 27, 18, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 16, 51, 29, 18, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 16, 51, 29, 18, 27, 28, -1]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 49, 83, 27, 18, 53, -1, -1]}
  ]
},
{
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    {"Taxon": "Spanish", "Segments": [13, -1, 27, 23, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [13, 8, 6, 20, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 27, 23, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 29, 50, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 4, 23, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, -1, 27, 23, 53, -1, -1]}
  ]
}
```

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```
}},
{"Name": "ToSwim-Navigare", "Data": [
  {"Taxon": "Latin", "Segments": [13, 27, 18, 7, 1, 53, 33, 0]},
  {"Taxon": "French", "Segments": [13, 27, -1, -1, 3, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [13, 27, 19, 0, 1, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [13, 27, 18, 7, 1, 27, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, 27, 18, 47, 85, 27, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [13, 29, 18, 47, 85, 27, 28, -1]},
  {"Taxon": "Catalan", "Segments": [13, 4, 19, 4, 1, 27, -1, -1]},
  {"Taxon": "Walloon", "Segments": [13, 31, -1, -1, 10, 37, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, 27, 18, 7, 1, 53, -1, -1]},
  {"Taxon": "Romanian", "Segments": [13, 27, 18, 7, 1, 27, -1, -1]}
]},
{"Name": "ToFly", "Data": [
  {"Taxon": "Latin", "Segments": [8, 6, 32, 53, 33, 0]},
  {"Taxon": "French", "Segments": [18, 6, 32, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [19, 6, 32, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [18, 6, 32, 27, 28, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, 6, -1, 27, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [18, 8, -1, 27, 28, -1]},
  {"Taxon": "Catalan", "Segments": [19, 15, 32, 27, -1, -1]},
  {"Taxon": "Walloon", "Segments": [18, 9, 32, 0, -1, -1]}
]},
{"Name": "ToFly-Exvolare", "Data": [
  {"Taxon": "Italian", "Segments": [49, 18, 6, 32, 27, 28, 0]},
  {"Taxon": "Friulian", "Segments": [49, 18, 6, 32, 53, -1, -1]},
  {"Taxon": "Romanian", "Segments": [49, 19, 15, 28, 27, -1, -1]}
]},
{"Name": "ToWalk", "Data": [
  {"Taxon": "French", "Segments": [16, 4, 26, 7, 13, 0, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [51, 27, 26, 7, 13, 27, 28, -1, -1]},
  {"Taxon": "Italian", "Segments": [51, 27, 26, 26, 7, 13, 27, 28, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 29, 26, 7, 38, 27, 36, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [51, 29, 26, 7, 38, 27, 28, -1, -1]},
  {"Taxon": "Catalan", "Segments": [51, 4, 26, 7, 13, 27, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [46, 7, 26, 7, 13, 0, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [65, 27, 26, 7, 13, 53, -1, -1, -1]}
]},
{"Name": "ToWalk-Marcher", "Data": [
  {"Taxon": "French", "Segments": [26, 27, 36, 16, 0]},
  {"Taxon": "Walloon", "Segments": [26, 53, 55, 46, 37]}
]},
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  {"Taxon": "Latin", "Segments": [26, 0, 33, 1, 0, 33, 0]},
  {"Taxon": "Italian", "Segments": [26, 31, 33, 10, 0, 33, 0]},
  {"Taxon": "Romanian", "Segments": [26, 0, 33, 10, 0, -1, -1]}
]},
{"Name": "ToWalk-Ambitare", "Data": [
  {"Taxon": "Latin", "Segments": [27, 26, 19, 7, 20, 53, 33, 0]},
  {"Taxon": "Spanish", "Segments": [27, 13, 23, -1, -1, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [27, 13, 23, -1, -1, 27, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [45, -1, 23, -1, -1, 27, 36, -1]},
  {"Taxon": "Portuguese", "Segments": [45, -1, 23, -1, -1, 27, 28, -1]}
]},
{"Name": "ToCome", "Data": [
  {"Taxon": "Latin", "Segments": [8, 0, 13, 37, 33, 0]},
```

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```
{
  "Taxon": "French", "Segments": [18, 4, 13, 7, 36, -1]},
  "Taxon": "Spanish", "Segments": [19, 0, 13, 7, 28, -1]},
  "Taxon": "Italian", "Segments": [18, 0, 13, 7, 28, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [18, -1, -1, 7, 36, -1]},
  "Taxon": "Portuguese", "Segments": [18, -1, -1, 7, 28, -1]},
  "Taxon": "Catalan", "Segments": [19, 4, 13, 7, -1, -1]},
  "Taxon": "Walloon", "Segments": [18, 7, 13, 7, -1, -1]},
  "Taxon": "Friulian", "Segments": [18, 7, 38, 37, -1, -1]},
  "Taxon": "Romanian", "Segments": [18, 0, 13, 7, -1, -1]}
}],
{
  "Name": "ToLieAsInABed", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 20, 0, 13, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, 20, 43, -1, 23, -1, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 51, 14, 20, 0, 13, 23, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [0, -1, 14, 20, 31, 13, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 20, 64, -1, 23, 0, 36, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 20, 64, -1, 23, 0, 28, -1, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 20, 0, 13, 23, -1, 28, 4]},
    {"Taxon": "Romanian", "Segments": [0, 51, 14, 20, 7, 13, 23, 0, -1, -1]}
  ]
},
{
  "Name": "ToLieAsInABed-Iacere", "Data": [
    {"Taxon": "Latin", "Segments": [12, 27, -1, 51, 25, 33, 0]},
    {"Taxon": "French", "Segments": [3, 0, -1, 49, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [5, 27, -1, 58, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [10, 27, -1, 46, 25, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 29, -1, 49, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 29, -1, 49, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [3, 27, 8, -1, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [10, 0, -1, -1, 33, 0, -1]},
    {"Taxon": "Friulian", "Segments": [12, 0, -1, 14, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [49, 4, -1, 46, 80, -1, -1]}
  ]
},
{
  "Name": "ToSit", "Data": [
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    {"Taxon": "French", "Segments": [14, 8, 27, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [14, -1, 0, -1, -1, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, -1, 0, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, -1, -1, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 0, -1, -1, 28, -1]},
    {"Taxon": "Romanian", "Segments": [16, -1, 0, 23, 80, -1, -1]}
  ]
},
{
  "Name": "ToSit-Sedentare", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 23, 0, 13, 20, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, -1, 13, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 64, -1, -1, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 64, -1, -1, -1, 20, 27, 28, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, -1, -1, 13, 20, 53, -1, -1]}
  ]
},
{
  "Name": "ToStand", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [31, -1, 20, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 20, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 16, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 20, 27, -1, -1]},
  ]
}
```

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```
{
  "Taxon": "Walloon", "Segments": [31, 14, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [-1, 14, 20, 53, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, 14, 20, 27, -1, -1]}
}],
{
  "Name": "ToStand-Levare", "Data": [
    {"Taxon": "Latin", "Segments": [32, 0, 18, 53, 33, 0]},
    {"Taxon": "French", "Segments": [32, 4, 18, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [5, 0, 19, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [32, 0, 18, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 0, 18, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 47, 18, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [35, 4, 19, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 4, 18, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 0, 18, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, -1, 15, 27, -1, -1]}
  ]
},
{
  "Name": "ToStand-Altiare", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 27, 32, 20, 7, 53, 33, 0]},
    {"Taxon": "French", "Segments": [-1, 6, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 27, 32, 58, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, 27, 32, 52, 27, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 27, 68, 14, -1, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 27, 68, 14, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [-1, 4, 32, 14, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [40, 73, -1, 14, -1, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 27, 32, 20, 16, -1, 53, -1]}
  ]
},
{
  "Name": "ToTurnIntransitive", "Data": [
    {"Taxon": "Latin", "Segments": [20, 6, 33, 13, 53, 33, 0]},
    {"Taxon": "French", "Segments": [20, 15, 36, 13, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 6, 28, 13, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 6, 33, 13, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 6, 36, 13, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 15, 28, 13, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 15, 33, 13, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 21, 33, 13, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 6, 33, 13, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 15, 33, 13, 27, -1, -1]}
  ]
},
{
  "Name": "ToTurnIntransitive-Gyrare", "Data": [
    {"Taxon": "Latin", "Segments": [1, 22, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [3, 7, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [34, 7, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [10, 7, 33, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 7, 28, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 7, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [3, 7, 28, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [10, 7, 33, 53, -1, -1]}
  ]
},
{
  "Name": "ToTurnIntransitive-AncestralClass3", "Data": [
    {"Taxon": "French", "Segments": [18, 7, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 7, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [18, 7, 33, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 7, 28, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 7, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, 7, 28, 27, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Walloon", "Segments": [18, 7, 36, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [10, 7, 33, 53, -1, -1]}
}],
{
  "Name": "ToTurnIntransitive-Torquere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 6, 33, 87, 25, 33, 0]},
    {"Taxon": "French", "Segments": [20, 9, 36, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 6, 28, 58, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 9, 33, 46, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 15, 33, 14, 0, 33, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 15, 33, 14, 0, 33, -1]},
    {"Taxon": "Catalan", "Segments": [20, 9, 33, 14, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 39, 33, 46, 0, -1, -1]}
  ]
},
{
  "Name": "ToFall", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 27, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [16, 8, 27, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [51, -1, 27, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 27, 23, 0, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 29, -1, 7, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 29, -1, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 27, 8, -1, 33, 4]},
    {"Taxon": "Walloon", "Segments": [46, -1, 57, -1, -1, 55, -1]},
    {"Taxon": "Friulian", "Segments": [46, 12, 27, 23, 0, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 4, 23, 80, -1, -1, -1]}
  ]
},
{
  "Name": "ToFall-Tumbare", "Data": [
    {"Taxon": "French", "Segments": [20, 61, -1, 19, 0, -1]},
    {"Taxon": "Spanish", "Segments": [20, 15, 26, 19, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 61, -1, 19, 27, 36]},
    {"Taxon": "Portuguese", "Segments": [20, 61, -1, 19, 27, 28]},
    {"Taxon": "Catalan", "Segments": [20, 15, 26, 19, 27, -1]},
    {"Taxon": "Walloon", "Segments": [20, 15, 26, -1, 0, -1]}
  ]
},
{
  "Name": "ToGive", "Data": [
    {"Taxon": "Latin", "Segments": [23, 27, 33, 0]},
    {"Taxon": "Spanish", "Segments": [23, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 27, 33, -1]},
    {"Taxon": "Friulian", "Segments": [23, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, 27, -1, -1]}
  ]
},
{
  "Name": "ToGive-Donare", "Data": [
    {"Taxon": "Latin", "Segments": [23, 6, 13, 53, 33, 0]},
    {"Taxon": "French", "Segments": [23, 9, 13, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 6, 13, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 6, 13, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 6, -1, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 15, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 15, 13, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 7, 13, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 6, 13, 53, -1, -1]}
  ]
},
{
  "Name": "ToHold", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 13, -1, 25, 33, 0]},
  ]
}
```


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```
{
  "Taxon": "French", "Segments": [20, 4, 13, -1, 7, 36, -1]},
  "Taxon": "Spanish", "Segments": [20, 0, 13, -1, 0, 28, -1]},
  "Taxon": "Italian", "Segments": [20, 0, 13, -1, 0, 28, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [20, 0, -1, -1, -1, 36, -1]},
  "Taxon": "Portuguese", "Segments": [20, 0, -1, -1, -1, 28, -1]},
  "Taxon": "Catalan", "Segments": [20, 4, 13, -1, 7, -1, -1]},
  "Taxon": "Walloon", "Segments": [20, 7, 13, -1, 7, -1, -1]},
  "Taxon": "Friulian", "Segments": [20, 7, 13, 12, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [52, 7, 13, -1, 0, -1, -1]}
}],
{
  "Name": "ToHold-Segurar", "Data": [
    {"Taxon": "Spanish", "Segments": [14, 0, 1, 15, 28, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 47, 1, 15, 28, 27, 36]},
    {"Taxon": "Portuguese", "Segments": [14, 47, 85, 15, 28, 27, 28]}
  ]
},
{
  "Name": "ToSqueeze", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 48, 33, 7, 26, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 48, 36, 62, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [0, 51, 14, 48, 28, 0, 26, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 48, 33, 31, 26, -1, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 16, 48, 33, 4, 26, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 16, 48, 33, 4, 26, -1, 0, 33, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 48, 28, 0, 26, -1, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [0, -1, 14, 48, 33, 7, 26, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 51, -1, 33, 0, 26, 0, -1, -1, -1]}
  ]
},
{
  "Name": "ToSqueeze-Serrere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 33, 33, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, 33, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 36, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 4, -1, 55, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, -1, 33, 27, -1, -1]}
  ]
},
{
  "Name": "ToSqueeze-Serare", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, -1, 33, 27, 33, 0]},
    {"Taxon": "French", "Segments": [14, 0, -1, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [58, 0, -1, 33, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 33, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 47, -1, 36, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 47, -1, 36, 27, 28, -1]},
    {"Taxon": "Walloon", "Segments": [14, 31, -1, 55, 0, -1, -1]}
  ]
},
{
  "Name": "ToSqueeze-Appectorare", "Data": [
    {"Taxon": "Latin", "Segments": [27, 48, 48, 0, 51, 20, 6, 33, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [27, -1, 48, -1, -1, 28, 0, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [29, -1, 48, 47, -1, 28, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [29, -1, 48, 47, -1, 28, -1, 20, 27, 28, -1]}
  ]
},
{
  "Name": "ToSqueeze-Stringere", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 20, 33, 7, 13, 1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, 20, 36, 62, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 20, 28, 0, 38, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 20, 33, 7, 13, 10, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, 16, 20, 33, 44, -1, 3, 7, 33, -1]},
    {"Taxon": "Portuguese", "Segments": [4, 16, 20, 33, 44, 3, 7, 33, -1, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 20, 28, 31, 38, -1, 4, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Walloon", "Segments": [-1, 14, 20, 33, 7, 13, 1, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [-1, 14, 20, 33, 31, 13, 1, 37, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, 14, 20, 33, 47, 13, 10, 0, -1, -1]}
}],
{"Name": "ToRub", "Data": [
  {"Taxon": "Latin", "Segments": [24, 33, 7, 51, 53, 33, 0]},
  {"Taxon": "French", "Segments": [24, 36, 86, 0, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [24, 28, 0, 1, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [24, 33, 0, 1, 27, 33, 0]},
  {"Taxon": "Catalan", "Segments": [24, 28, 4, 1, 27, -1, -1]},
  {"Taxon": "Walloon", "Segments": [24, 33, 17, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [24, 33, 0, -1, 27, -1, -1]},
  {"Taxon": "Romanian", "Segments": [24, 33, 0, 51, 27, -1, -1]}
]},
{"Name": "ToRub-Exfricare", "Data": [
  {"Taxon": "PortugueseBrazil", "Segments": [47, 16, 24, 28, 47, 1, 27, 28]},
  {"Taxon": "Portuguese", "Segments": [47, 16, 24, 28, 47, 85, 27, 28]}
]},
{"Name": "ToRub-Frictare", "Data": [
  {"Taxon": "Latin", "Segments": [24, 33, 7, 51, 20, 53, 33, 0]},
  {"Taxon": "French", "Segments": [24, 36, 6, 20, 0, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [24, 28, 6, 20, 27, 28, -1, -1]},
  {"Taxon": "Italian", "Segments": [24, 33, 0, 20, 20, 27, 33, 0]},
  {"Taxon": "Walloon", "Segments": [24, 36, 6, 20, 0, -1, -1, -1]}
]},
{"Name": "ToRub-Frictiare", "Data": [
  {"Taxon": "Spanish", "Segments": [24, 33, 7, 14, 27, 28]},
  {"Taxon": "Catalan", "Segments": [24, 28, 4, 14, 27, -1]}
]},
{"Name": "ToWash", "Data": [
  {"Taxon": "Latin", "Segments": [32, 27, 8, 53, 33, 0]},
  {"Taxon": "French", "Segments": [32, 27, 18, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [32, 27, 67, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [32, 27, 18, 27, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [32, 29, 18, 27, 28, -1]},
  {"Taxon": "Portuguese", "Segments": [32, 29, 18, 27, 28, -1]},
  {"Taxon": "Catalan", "Segments": [35, 4, 19, 27, -1, -1]},
  {"Taxon": "Walloon", "Segments": [32, 27, 18, 0, -1, -1]},
  {"Taxon": "Friulian", "Segments": [32, 27, 18, 53, -1, -1]},
  {"Taxon": "Romanian", "Segments": [32, 27, -1, -1, -1, -1]}
]},
{"Name": "ToWipe", "Data": [
  {"Taxon": "Latin", "Segments": [20, 0, 33, 1, 0, 33, 0]},
  {"Taxon": "Italian", "Segments": [20, 31, 33, 10, 0, 33, 0]}
]},
{"Name": "ToWipe-Extergere", "Data": [
  {"Taxon": "Latin", "Segments": [0, 51, 14, 20, 0, 33, 1, 0, 33, 0]},
  {"Taxon": "Spanish", "Segments": [0, -1, 14, 20, 27, 28, 14, 7, 28, -1]},
  {"Taxon": "Catalan", "Segments": [4, -1, 14, 20, 4, 33, 3, 7, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, -1, 16, 20, 0, 33, 10, 0, -1, -1]}
]},
{"Name": "ToWipe-Exsucare", "Data": [
  {"Taxon": "Latin", "Segments": [0, 51, 14, -1, 21, 51, -1, 53, 33, 0]},
  {"Taxon": "French", "Segments": [0, -1, 14, 69, 7, -1, 12, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [0, 13, 34, -1, 15, 1, -1, 27, 28, -1]},
  {"Taxon": "Italian", "Segments": [27, 16, 16, -1, 15, 1, -1, 27, 33, 0]},
```

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```
{
  "Taxon": "PortugueseBrazil", "Segments": [64, -1, 16, -1, 15, 1, -1, 27, 28, -1]},
  "Taxon": "Portuguese", "Segments": [64, -1, 16, -1, 15, 85, -1, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [4, -1, 16, -1, 15, 1, 27, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [-1, -1, 14, -1, 15, -1, 8, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [-1, -1, 14, -1, 15, -1, 12, 53, -1, -1]},
  "Taxon": "Romanian", "Segments": [15, -1, 14, -1, -1, 51, -1, 27, -1, -1]}
}],
{
  "Name": "ToWipe-Limpidare", "Data": [
    {"Taxon": "Latin", "Segments": [32, 7, 26, 48, 7, 23, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [32, 7, 26, 48, 12, -1, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 44, -1, 48, -1, -1, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 44, -1, 48, -1, -1, 27, 28, -1]}
  ]
},
{
  "Name": "ToPull", "Data": [
    {"Taxon": "Latin", "Segments": [20, 7, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [20, 7, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 7, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 7, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [46, 7, 28, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 7, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 7, 28, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 7, 33, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 7, 33, 53, -1, -1]}
  ]
},
{
  "Name": "ToPull-Pulsare", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 32, 14, 53, 33, 0]},
    {"Taxon": "French", "Segments": [48, 15, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 15, -1, 34, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 15, 32, 14, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 15, -1, 16, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 15, -1, 16, 27, 28, -1]},
    {"Taxon": "Walloon", "Segments": [48, 21, 14, 37, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 15, 32, 14, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 15, 32, 14, 27, -1, -1]}
  ]
},
{
  "Name": "ToPull-Trahere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 33, 27, 40, 0, 33, 0]},
    {"Taxon": "French", "Segments": [20, 36, -1, -1, 31, 36, -1]},
    {"Taxon": "Italian", "Segments": [20, 33, 27, 33, -1, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 28, 27, 49, 0, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 28, 29, 49, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 28, 31, 8, -1, 28, 4]},
    {"Taxon": "Friulian", "Segments": [20, 33, 56, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 33, 27, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToPush", "Data": [
    {"Taxon": "Latin", "Segments": [7, 26, 48, 7, 13, 1, 0, 33, 0]},
    {"Taxon": "Italian", "Segments": [7, 26, 48, 7, 13, 10, 0, 33, 0]},
    {"Taxon": "Catalan", "Segments": [4, 26, 48, 31, 38, -1, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, 26, 48, 7, 13, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToThrow", "Data": [
    {"Taxon": "Latin", "Segments": [12, 27, 51, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [3, 4, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, -1, 46, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [10, 0, 20, 20, 27, 33, 0]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "PortugueseBrazil", "Segments": [3, 59, 20, 27, 28, -1, -1]},
  "Taxon": "Portuguese", "Segments": [3, 59, 20, 27, 28, -1, -1]},
  "Taxon": "Catalan", "Segments": [34, 7, -1, 20, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [10, 31, -1, 20, 0, -1, -1]}
}],
{
  "Name": "ToThrow-Lanceare", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 13, 51, 0, 53, 33, 0]},
    {"Taxon": "French", "Segments": [32, 43, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 13, 58, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 13, 46, -1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 45, -1, 14, -1, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 45, -1, 14, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [35, 4, 13, 14, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 27, 13, 65, -1, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 27, 13, 46, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToThrow-Eruncare", "Data": [
    {"Taxon": "Latin", "Segments": [25, -1, 33, 15, 13, 51, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [27, -1, 33, 27, 13, 51, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [27, 33, 33, 6, 13, 46, 27, 33, 0]},
    {"Taxon": "Romanian", "Segments": [27, -1, 28, 15, 75, 51, 27, -1, -1]}
  ]
},
{
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    {"Taxon": "French", "Segments": [32, 7, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 0, 1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [32, 0, 1, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [35, 7, 85, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 9, 12, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 0, -1, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 0, 1, 27, -1, -1]}
  ]
},
{
  "Name": "ToTie-Aptare", "Data": [
    {"Taxon": "Latin", "Segments": [27, 48, 20, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [27, -1, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [29, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [29, -1, 20, 27, 28, -1]}
  ]
},
{
  "Name": "ToSew", "Data": [
    {"Taxon": "Latin", "Segments": [51, 2, 13, -1, 14, 15, 0, 33, 0]},
    {"Taxon": "French", "Segments": [51, 15, -1, 23, -1, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, -1, -1, 14, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 15, -1, -1, 46, -1, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 15, -1, -1, 49, -1, 0, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, -1, -1, 49, -1, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 15, -1, -1, 49, -1, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [51, 72, -1, -1, 49, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [51, 15, -1, -1, 49, 7, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [65, 39, -1, -1, 14, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToCount", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 26, 48, 15, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [51, 61, -1, -1, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, 13, -1, -1, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 6, 13, -1, -1, 20, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 61, -1, -1, -1, 20, 27, 28, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [51, 61, -1, -1, -1, 20, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [51, 15, 26, -1, -1, 20, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [51, 61, -1, -1, -1, 20, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 6, 13, -1, -1, 20, 53, -1, -1]}
}],
{
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    {"Taxon": "French", "Segments": [0, 13, 15, 26, 0, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [0, 13, 15, 26, 0, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [0, 13, 15, 26, 0, 28, 27, -1, -1]}
  ]
},
{
  "Name": "ToCount-Numerare", "Data": [
    {"Taxon": "Latin", "Segments": [13, 15, 26, 0, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [13, 42, -1, 19, 36, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [13, 6, 18, 0, 33, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [13, 15, 26, 0, 28, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 15, 26, 0, 33, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, 26, 27, 33, 27, -1, -1]}
  ]
},
{
  "Name": "ToSay", "Data": [
    {"Taxon": "Latin", "Segments": [23, 37, 51, 0, 33, 0]},
    {"Taxon": "French", "Segments": [23, 7, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [23, 0, 58, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 7, -1, -1, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 7, 49, 0, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 49, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 7, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 37, -1, -1, 36, -1]},
    {"Taxon": "Friulian", "Segments": [23, 37, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [49, 7, 46, 0, -1, -1]}
  ]
},
{
  "Name": "ToSay-Exponere", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 48, 2, 13, 0, 33, 0]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 48, 6, 33, -1, 33, 0]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 48, 15, 13, 0, -1, -1]}
  ]
},
{
  "Name": "ToSing-AncestralClass", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 13, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [16, 43, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 13, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 13, 20, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 45, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 45, -1, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, 13, 20, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 43, -1, 20, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 13, 20, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 47, 13, 20, 27, -1, -1]}
  ]
},
{
  "Name": "ToPlay-Ludere", "Data": [
    {"Taxon": "Latin", "Segments": [32, 21, 23, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [32, 15, 23, 7, 28, -1]}
  ]
},
{
  "Name": "ToPlay-Jiocare", "Data": [
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Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [12, 6, -1, 51, 53, 33, 0]},
  "Taxon": "French", "Segments": [3, -1, 8, -1, 0, -1, -1]},
  "Taxon": "Spanish", "Segments": [34, 15, -1, 1, 27, 28, -1]},
  "Taxon": "Italian", "Segments": [10, 6, -1, 51, 27, 33, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [3, 6, -1, 1, 27, 36, -1]},
  "Taxon": "Portuguese", "Segments": [3, 15, -1, 85, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [3, 15, -1, 1, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [10, 15, 8, -1, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [10, 15, 12, -1, 53, -1, -1]},
  "Taxon": "Romanian", "Segments": [3, 15, -1, 51, 27, -1, -1]}
}],
{
  "Name": "ToFloat", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 21, 51, 20, 15, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 32, 22, 51, 20, 69, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 32, 15, 1, 20, 8, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 32, 15, 20, 20, 15, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 32, 15, -1, 20, 15, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 32, 15, -1, 20, 15, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [24, 32, 15, 51, 20, 15, 27, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 32, 15, 65, 20, 15, 27, -1, -1]}
  ]
},
{
  "Name": "ToFloat-Fluitare", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 15, 7, 20, 53, 33, 0]},
    {"Taxon": "Italian", "Segments": [24, 32, 15, 7, 20, 27, 33, 0]}
  ]
},
{
  "Name": "ToFlow", "Data": [
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    {"Taxon": "French", "Segments": [24, 32, 22, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 32, 15, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 32, 15, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 32, 8, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 32, 8, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [24, 32, 15, 7, -1, -1]}
  ]
},
{
  "Name": "ToFlow-Colare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 2, 32, 53, 33, 0]},
    {"Taxon": "French", "Segments": [51, 15, 32, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, 32, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 6, 32, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 15, 68, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [51, 9, 32, 0, -1, -1]}
  ]
},
{
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    {"Taxon": "Spanish", "Segments": [0, -1, 14, 51, 15, 33, 7, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 51, 6, 33, 33, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 16, 51, 6, -1, 36, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 16, 51, 15, -1, 55, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 51, 6, -1, 33, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 14, 51, 6, -1, 33, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 51, 15, 28, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToFlow-Currere", "Data": [
    {"Taxon": "Latin", "Segments": [51, 15, 33, 33, 0, 33, 0]},
  ]
}
```


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```
{
  "Taxon": "French", "Segments": [51, 15, -1, 36, 7, 36, -1]},
  "Taxon": "Spanish", "Segments": [51, 6, -1, 33, 0, 28, -1]},
  "Taxon": "Italian", "Segments": [51, 6, 33, 33, 0, 33, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [51, 6, -1, 36, 0, 36, -1]},
  "Taxon": "Portuguese", "Segments": [51, 15, -1, 36, 0, 28, -1]},
  "Taxon": "Catalan", "Segments": [51, 6, -1, 33, 4, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 6, -1, 33, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [51, 15, 28, 10, 0, -1, -1]}
}],
{
  "Name": "ToFreeze", "Data": [
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    {"Taxon": "French", "Segments": [3, 4, 32, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, 32, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [10, 0, 32, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 47, 32, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 47, 32, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [3, 4, 32, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 27, 32, 0, -1, -1]}
  ]
},
{
  "Name": "ToFreeze-Glaciare", "Data": [
    {"Taxon": "Latin", "Segments": [1, 32, 27, -1, 51, 7, 53, 33, 0]},
    {"Taxon": "French", "Segments": [1, 32, 27, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [1, 12, 27, 20, 46, 12, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [1, 32, 4, -1, 14, -1, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 32, 27, -1, 46, -1, 53, -1, -1]}
  ]
},
{
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    {"Taxon": "Romanian", "Segments": [47, 13, 1, -1, 0, 52, -1, 27, -1, -1]}
  ]
},
{
  "Name": "ToSwell", "Data": [
    {"Taxon": "Latin", "Segments": [78, 1, 26, 0, 13, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [6, 1, 26, 43, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [78, -1, 26, 0, 13, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [78, 26, 0, 13, 20, 27, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [78, 1, 26, 0, 13, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [78, 1, 26, 0, 13, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [27, 15, 1, 26, 0, 13, 20, 27, -1]}
  ]
},
{
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    {"Taxon": "French", "Segments": [43, -1, 24, 32, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [7, 13, 46, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [0, 13, 24, 7, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 16, -1, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [44, -1, 16, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [7, 26, 24, 32, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [64, -1, 24, 32, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [0, 13, 24, 32, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, 26, 24, 32, 27, -1, -1]}
  ]
},
{
  "Name": "ToSwell-Conflate", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 51, -1, 6, 13, 24, 32, 53, 33, 0]},
    {"Taxon": "French", "Segments": [-1, 1, -1, 61, -1, 24, 32, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 1, -1, 6, 13, 24, 12, 27, 33, 0]},
    {"Taxon": "Walloon", "Segments": [-1, 1, -1, 61, -1, 24, 32, 0, -1, -1]},
  ]
}
```

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```
{
  "Taxon": "Friulian", "Segments": [49, 1, 32, 6, 75, 24, -1, 53, -1, -1]}
}],
{
  "Name": "ToSwell-Intumescere", "Data": [
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    {
      "Taxon": "Spanish", "Segments": [0, 13, 20, 15, 26, 0, 58, 0, 28, -1, -1]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [44, -1, 20, 15, 26, 0, 14, -1, 0, 28, -1]},
    {
      "Taxon": "Portuguese", "Segments": [44, -1, 20, 15, 26, 0, 14, -1, 0, 28, -1]}
  ]
},
{
  "Name": "ToSwell-Crescere", "Data": [
    {
      "Taxon": "Latin", "Segments": [51, 33, -1, 25, 14, 51, 25, 33, 0]},
    {
      "Taxon": "French", "Segments": [51, 36, 8, 27, -1, 20, -1, 36, -1]},
    {
      "Taxon": "Spanish", "Segments": [51, 28, -1, 0, 58, -1, 0, 28, -1]},
    {
      "Taxon": "Italian", "Segments": [51, 33, -1, 0, 16, 16, 0, 33, 0]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [51, 28, -1, 0, 14, -1, 0, 36, -1]},
    {
      "Taxon": "Portuguese", "Segments": [51, 28, -1, 47, 16, 14, 0, 28, -1]},
    {
      "Taxon": "Catalan", "Segments": [51, 28, -1, 0, -1, 16, 4, -1, -1]},
    {
      "Taxon": "Romanian", "Segments": [51, 28, -1, 0, 16, 20, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Brojan", "Data": [
    {
      "Taxon": "French", "Segments": [19, 36, 22, 32, 0, -1, -1]},
    {
      "Taxon": "Italian", "Segments": [19, 33, 15, 46, 27, 33, 0]},
    {
      "Taxon": "Walloon", "Segments": [19, 36, 21, 32, 0, -1, -1]},
    {
      "Taxon": "Friulian", "Segments": [19, 33, 15, 49, 53, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Cremare", "Data": [
    {
      "Taxon": "Latin", "Segments": [51, 33, 0, 26, 53, 33, 0]},
    {
      "Taxon": "French", "Segments": [51, 36, 27, 26, 0, -1, -1]},
    {
      "Taxon": "Spanish", "Segments": [51, -1, 0, 26, 27, 28, -1]},
    {
      "Taxon": "Italian", "Segments": [51, 33, 0, 26, 27, 33, 0]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [51, -1, 60, 26, 27, 28, 0]},
    {
      "Taxon": "Portuguese", "Segments": [51, -1, 59, 26, 27, 36, 0]},
    {
      "Taxon": "Catalan", "Segments": [51, 33, 4, 26, 27, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flammare", "Data": [
    {
      "Taxon": "Latin", "Segments": [24, 32, 27, 26, 26, 53, 33, 0]},
    {
      "Taxon": "French", "Segments": [24, 32, 27, -1, 26, 0, -1, -1]},
    {
      "Taxon": "Italian", "Segments": [24, 12, 27, 26, 26, 27, 33, 0]},
    {
      "Taxon": "Catalan", "Segments": [24, 68, 27, -1, 26, 27, -1, -1]},
    {
      "Taxon": "Friulian", "Segments": [24, 32, 27, -1, 26, 53, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Ardere", "Data": [
    {
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    {
      "Taxon": "French", "Segments": [27, 36, 23, -1, 36, -1]},
    {
      "Taxon": "Spanish", "Segments": [27, 28, 23, 0, 28, -1]},
    {
      "Taxon": "Italian", "Segments": [27, 33, 23, 0, 33, 0]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [27, 36, 23, 0, 36, -1]},
    {
      "Taxon": "Portuguese", "Segments": [29, 28, 23, 0, 28, -1]},
    {
      "Taxon": "Romanian", "Segments": [27, 28, 23, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flagrare", "Data": [
    {
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    {
      "Taxon": "French", "Segments": [24, 32, 27, 1, 36, 0, -1, -1]},
    {
      "Taxon": "Spanish", "Segments": [24, 32, 27, 1, 28, 27, 28, -1]},
    {
      "Taxon": "Italian", "Segments": [24, 32, 27, 1, 33, 27, 33, 0]},
    {
      "Taxon": "PortugueseBrazil", "Segments": [24, 32, 27, 1, 36, 27, 36, -1]},
    {
      "Taxon": "Portuguese", "Segments": [24, 32, 27, 1, 28, 27, 28, -1]}
  ]
}
```

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```
}},
{"Name": "ToBurn-Incendere", "Data": [
  {"Taxon": "Latin", "Segments": [7, 13, 51, 0, 13, 23, -1, 0, 33, 0]},
  {"Taxon": "French", "Segments": [62, -1, 14, 43, -1, 23, 12, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [0, 13, 58, 0, 13, 23, -1, 0, 28, -1]},
  {"Taxon": "Italian", "Segments": [7, 13, 46, 31, 13, 23, 12, 27, 33, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 14, 0, 13, 10, 11, 27, 28, -1]},
  {"Taxon": "Portuguese", "Segments": [44, -1, 14, 64, -1, 23, 12, 27, 28, -1]},
  {"Taxon": "Catalan", "Segments": [4, 13, 14, 0, 13, 23, -1, -1, 28, 4]},
  {"Taxon": "Romanian", "Segments": [47, 13, 46, 7, 13, 23, 3, 0, -1, -1]}
]},
{"Name": "ToBurn-AncestralClass8", "Data": [
  {"Taxon": "Latin", "Segments": [15, 14, 20, 15, 32, 53, 33, 0]},
  {"Taxon": "Italian", "Segments": [15, 14, 20, 6, 32, 27, 33, 0]},
  {"Taxon": "Romanian", "Segments": [15, 14, 20, 15, 33, 27, -1, -1]}
]},
{"Name": "All", "Data": [
  {"Taxon": "Latin", "Segments": [6, 26, 13, 25, 14]},
  {"Taxon": "Italian", "Segments": [6, 38, 38, 7, -1]}
]},
{"Name": "All-Totus", "Data": [
  {"Taxon": "Latin", "Segments": [20, 2, -1, 20, 15, 14]},
  {"Taxon": "French", "Segments": [20, 15, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [20, 6, -1, 23, 6, -1]},
  {"Taxon": "Italian", "Segments": [20, 15, 20, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 6, -1, 23, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 6, -1, 50, 15, -1]},
  {"Taxon": "Catalan", "Segments": [20, 6, -1, 20, -1, -1]},
  {"Taxon": "Walloon", "Segments": [20, 9, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [23, 15, -1, 20, -1, -1]},
  {"Taxon": "Romanian", "Segments": [20, 6, -1, 20, -1, -1]}
]},
{"Name": "Many", "Data": [
  {"Taxon": "Latin", "Segments": [26, 15, 32, 20, 15, 14]},
  {"Taxon": "French", "Segments": [26, 15, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [26, 15, -1, 46, 6, -1]},
  {"Taxon": "Italian", "Segments": [26, 6, 32, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [26, 90, 92, -1, 20, 15]},
  {"Taxon": "Portuguese", "Segments": [26, 90, 92, -1, 20, 15]},
  {"Taxon": "Catalan", "Segments": [26, 6, 32, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [26, 6, 32, 65, -1, -1]},
  {"Taxon": "Romanian", "Segments": [26, 15, 32, 20, -1, -1]}
]},
{"Name": "Many-Tantus", "Data": [
  {"Taxon": "Latin", "Segments": [20, 27, 13, 20, 15, 14]},
  {"Taxon": "Spanish", "Segments": [20, 27, 13, 20, 6, -1]},
  {"Taxon": "Italian", "Segments": [20, 27, 13, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 45, -1, 20, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [20, 45, -1, 20, 15, -1]},
  {"Taxon": "Catalan", "Segments": [20, 27, 13, 20, -1, -1]},
  {"Taxon": "Friulian", "Segments": [20, 27, 13, 65, -1, -1]}
]},
{"Name": "Some", "Data": [
  {"Taxon": "French", "Segments": [6, -1, 51, 93, -1, -1]},
  {"Taxon": "Spanish", "Segments": [27, 32, 1, 15, 13, 6]},
  {"Taxon": "Italian", "Segments": [27, 32, 51, 15, 13, 6]},
```

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```
{
  "Taxon": "PortugueseBrazil", "Segments": [27, 8, 1, 90, -1, -1]},
  "Taxon": "Portuguese", "Segments": [27, 68, 1, 90, -1, -1]},
  "Taxon": "Catalan", "Segments": [4, 32, 1, 15, -1, -1]}
}],
{
  "Name": "Few", "Data": [
    {"Taxon": "Latin", "Segments": [48, 78, 51, 15, 14]},
    {"Taxon": "French", "Segments": [48, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 6, 51, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 9, 51, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 6, 8, 51, 15]},
    {"Taxon": "Portuguese", "Segments": [48, 6, 8, 51, 15]},
    {"Taxon": "Catalan", "Segments": [48, 9, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 61, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 2, 51, -1, -1]}
  ]
},
{
  "Name": "Other", "Data": [
    {"Taxon": "Latin", "Segments": [27, 32, 20, 0, 33, -1]},
    {"Taxon": "French", "Segments": [6, -1, 20, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [6, -1, 20, -1, 28, 6]},
    {"Taxon": "Italian", "Segments": [27, 32, 20, -1, 33, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 8, 20, -1, 28, 15]},
    {"Taxon": "Portuguese", "Segments": [6, 8, 20, -1, 28, 15]},
    {"Taxon": "Catalan", "Segments": [27, 32, 20, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [61, -1, 20, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 32, 20, -1, 33, 7]},
    {"Taxon": "Romanian", "Segments": [27, 32, 20, -1, -1, -1]}
  ]
},
{
  "Name": "Other-Alius", "Data": [
    {"Taxon": "Latin", "Segments": [27, 32, 7, 15, 14]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 8, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 68, -1, -1, -1]}
  ]
},
{
  "Name": "Big", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 1, 13, 15, 14]},
    {"Taxon": "Spanish", "Segments": [26, 27, -1, 38, 6, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 38, 38, 6, -1]}
  ]
},
{
  "Name": "Big-Grandem", "Data": [
    {"Taxon": "Latin", "Segments": [1, 33, 27, 13, 23, 0, 26]},
    {"Taxon": "French", "Segments": [1, 36, 43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 13, 23, 0, -1]},
    {"Taxon": "Italian", "Segments": [1, 33, 27, 13, 23, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 45, -1, 10, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 28, 45, -1, 23, 47, -1]},
    {"Taxon": "Catalan", "Segments": [1, 33, 27, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [1, 36, 43, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 33, 27, 13, 20, -1, -1]}
  ]
},
{
  "Name": "Big-Majjorem", "Data": [
    {"Taxon": "Latin", "Segments": [26, 56, 12, 2, 33, 0, 26]},
    {"Taxon": "Romanian", "Segments": [26, 27, -1, -1, -1, 28, 0]}
  ]
},
{
  "Name": "Long-Longum", "Data": [
    {"Taxon": "Latin", "Segments": [32, 6, -1, 13, 1, 15, 14]},
    {"Taxon": "French", "Segments": [32, 42, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 6, -1, 13, 1, 6, -1]}
  ]
}
```

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```
{
  "Taxon": "Italian", "Segments": [32, 15, -1, 13, 1, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [32, 61, -1, 1, 15, -1, -1]},
  "Taxon": "Portuguese", "Segments": [32, 61, -1, 1, 15, -1, -1]},
  "Taxon": "Catalan", "Segments": [35, 6, -1, 75, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [32, 61, -1, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [32, 15, 13, 51, -1, -1, -1]},
  "Taxon": "Romanian", "Segments": [32, 15, 13, 1, -1, -1, -1]}
}],
{
  "Name": "Long-Largum", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 33, 1, 15, 14]},
    {"Taxon": "French", "Segments": [32, 27, 36, 3, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 28, 85, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 33, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 36, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 28, 1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [35, 27, 28, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 27, 33, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 33, 1, -1, -1]}
  ]
},
{
  "Name": "Wide", "Data": [
    {"Taxon": "Latin", "Segments": [32, 53, 20, 15, 14]},
    {"Taxon": "French", "Segments": [32, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 20, 15, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 20, -1, -1]}
  ]
},
{
  "Name": "Wide-Amplum", "Data": [
    {"Taxon": "Latin", "Segments": [27, 26, 48, 32, 15, 14]},
    {"Taxon": "French", "Segments": [43, -1, 48, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 13, 46, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 26, 48, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [45, -1, 16, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [45, -1, 16, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [27, 26, 48, 32, 4, -1]}
  ]
},
{
  "Name": "Thick", "Data": [
    {"Taxon": "Latin", "Segments": [51, 33, 27, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [1, 36, 84, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [1, 33, 27, 14, 14, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 28, 27, -1, 16, 15, -1]},
    {"Taxon": "Catalan", "Segments": [1, 28, 27, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 33, 27, 14, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 33, 27, 14, -1, -1, -1]}
  ]
},
{
  "Name": "Thick-Spissum", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 7, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 48, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 0, 14, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 0, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 31, -1, 14, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 48, 0, -1, 14, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 31, -1, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 48, 31, -1, -1, -1, -1]}
  ]
}
```

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```
}},
{"Name": "Thick-Gurdum", "Data": [
  {"Taxon": "Latin", "Segments": [1, 15, 33, 23, 15, 14]},
  {"Taxon": "Spanish", "Segments": [1, 6, 28, 23, 6, -1]}
]},
{"Name": "Thick-Grossum", "Data": [
  {"Taxon": "Latin", "Segments": [1, 33, 6, -1, 14, 14, 15, 14]},
  {"Taxon": "French", "Segments": [1, 36, 6, -1, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [1, 33, 9, -1, 14, 14, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 6, -1, 14, 15, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [1, 28, 6, -1, 14, 15, -1, -1]},
  {"Taxon": "Catalan", "Segments": [1, 28, 9, -1, 14, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [1, 33, 8, 31, 14, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [1, 33, 6, -1, 14, -1, -1, -1]}
]},
{"Name": "Heavy", "Data": [
  {"Taxon": "Latin", "Segments": [1, 33, 27, -1, -1, 8, 7, 14]},
  {"Taxon": "French", "Segments": [1, 36, 7, 12, 31, 24, -1, -1]},
  {"Taxon": "Spanish", "Segments": [1, 28, 27, -1, -1, 19, 0, -1]},
  {"Taxon": "Italian", "Segments": [1, 33, 31, -1, -1, 18, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [1, 28, 27, -1, -1, 18, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [1, 28, 27, -1, -1, 18, 47, -1]},
  {"Taxon": "Catalan", "Segments": [1, 28, 0, -1, -1, 8, -1, -1]},
  {"Taxon": "Walloon", "Segments": [1, 33, 27, -1, -1, 18, -1, -1]},
  {"Taxon": "Friulian", "Segments": [1, 33, 31, -1, -1, 18, 7, -1]},
  {"Taxon": "Romanian", "Segments": [1, 28, 0, -1, -1, 8, -1, -1]}
]},
{"Name": "Heavy-Lurdus", "Data": [
  {"Taxon": "Latin", "Segments": [32, 15, 33, 23, 15, 14]},
  {"Taxon": "French", "Segments": [32, 15, 36, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [32, 0, 28, 23, 6, -1]},
  {"Taxon": "Italian", "Segments": [32, 6, 33, 23, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [32, 0, 28, 23, 6, -1]},
  {"Taxon": "Portuguese", "Segments": [32, 0, 28, 23, 6, -1]}
]},
{"Name": "Small", "Data": [
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  {"Taxon": "French", "Segments": [48, 4, -1, 20, 7, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [48, 4, 20, 7, 20, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [48, 7, -1, 20, 7, -1, -1, -1]}
]},
{"Name": "Small-Pittinus", "Data": [
  {"Taxon": "Latin", "Segments": [48, 7, 20, 20, 7, 13, 15, 14]},
  {"Taxon": "Spanish", "Segments": [48, 0, -1, 51, 0, 38, 6, -1]},
  {"Taxon": "Italian", "Segments": [48, 7, 20, 46, 7, 13, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, 0, -1, 51, 0, 13, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [48, 47, -1, 51, 0, 13, 15, -1]},
  {"Taxon": "Romanian", "Segments": [48, 15, -1, 52, 7, 13, -1, -1]}
]},
{"Name": "Small-Pitulus", "Data": [
  {"Taxon": "Latin", "Segments": [48, 7, -1, 20, 15, 32, 15, 14]},
  {"Taxon": "Italian", "Segments": [48, 7, 51, 51, 6, 32, 6, -1]},
  {"Taxon": "Friulian", "Segments": [48, 7, -1, 46, 15, 32, -1, -1]}
]},
{"Name": "Short", "Data": [
  {"Taxon": "Latin", "Segments": [51, 15, 33, 20, 15, 14]},
```


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```
{
  "Taxon": "French", "Segments": [51, 15, 36, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [51, 6, 28, 20, 6, -1]},
  "Taxon": "Italian", "Segments": [51, 6, 33, 20, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [51, 15, 36, 20, 15, -1]},
  "Taxon": "Portuguese", "Segments": [51, 15, 28, 20, 15, -1]},
  "Taxon": "Catalan", "Segments": [51, 15, 28, 20, -1, -1]},
  "Taxon": "Walloon", "Segments": [51, 21, 36, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 15, 33, 20, -1, -1]}
}],
{
  "Name": "Short-Brevis", "Data": [
    {"Taxon": "Latin", "Segments": [19, 33, 0, 8, 7, 14]},
    {"Taxon": "French", "Segments": [19, 36, 31, 24, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 28, 0, 19, 0, -1]},
    {"Taxon": "Italian", "Segments": [19, 33, 31, 18, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 28, 31, 18, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [19, 28, 31, 18, 47, -1]},
    {"Taxon": "Catalan", "Segments": [19, 28, 0, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, 36, 0, 24, -1, -1]}
  ]
},
{
  "Name": "Narrow", "Data": [
    {"Taxon": "Latin", "Segments": [27, 13, 1, 15, 14, 20, 15, 14]},
    {"Taxon": "Spanish", "Segments": [27, 13, 1, 6, 14, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 13, 1, 15, 14, 20, 6, -1]},
    {"Taxon": "Romanian", "Segments": [47, 75, 1, 15, 14, 20, -1, -1]}
  ]
},
{
  "Name": "Narrow-Strictus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 20, 33, -1, 7, -1, 51, 20, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 20, 36, 8, 27, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 20, 28, -1, 0, -1, -1, 46, 6, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 20, 33, -1, 0, -1, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 20, 28, -1, 59, -1, -1, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 20, 28, -1, 60, -1, -1, 20, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 20, 28, -1, 31, -1, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 20, 36, -1, 72, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 20, 33, -1, 31, -1, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 20, 33, -1, 47, 26, -1, 20, -1, -1]}
  ]
},
{
  "Name": "Thin", "Data": [
    {"Taxon": "Latin", "Segments": [26, 7, 13, 21, -1, 20, 15, 14]},
    {"Taxon": "French", "Segments": [26, 4, 13, 22, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 0, 13, 15, -1, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [26, 7, 13, 15, -1, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 7, -1, 15, -1, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 7, -1, 15, -1, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [26, 4, 13, 15, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [26, 7, 13, 15, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 7, 13, 21, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 4, 33, 15, 13, 20, -1, -1]}
  ]
},
{
  "Name": "Thin-Delicatus", "Data": [
    {"Taxon": "Latin", "Segments": [23, 25, 32, 7, 51, 53, 20, 15, 14]},
    {"Taxon": "French", "Segments": [23, 21, -1, -1, 3, 25, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 0, 32, -1, 85, 27, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [23, 0, 32, 7, 51, 27, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 0, 8, -1, 1, 27, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 31, 68, -1, 85, 27, 50, 15, -1]},
  ]
}
```

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```
{
  "Taxon": "Catalan", "Segments": [23, 4, 32, 7, 51, 27, 20, -1, -1]}
}],
{
  "Name": "Thin-Subtilis", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 19, 20, 37, 32, 0, 26]},
    {"Taxon": "Spanish", "Segments": [14, 15, -1, 20, 7, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 20, 20, 7, 32, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 15, -1, 46, 7, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 15, -1, 46, 7, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 15, 48, 20, 7, 32, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 21, -1, 20, 7, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 15, -1, 20, 37, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, 19, 52, 7, 33, 0, -1]}
  ]},
{
  "Name": "Warm", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 32, 7, 23, 15, 14]},
    {"Taxon": "French", "Segments": [16, 6, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 32, -1, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 32, -1, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 8, -1, -1, 23, 15]},
    {"Taxon": "Portuguese", "Segments": [51, 27, 32, -1, 23, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, 27, 68, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 61, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 32, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 32, -1, 23, -1, -1]}
  ]},
{
  "Name": "Cold", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, -1, 37, 1, 7, 23, 15, 14]},
    {"Taxon": "French", "Segments": [24, 36, 8, 27, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, -1, 7, -1, -1, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, -1, 0, 23, -1, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, 28, -1, 31, -1, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 55, 8, 31, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 33, -1, 25, -1, -1, 20, -1, -1]}
  ]},
{
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    {"Taxon": "Latin", "Segments": [33, 0, 51, -1, 0, 13, 20, 0, 26]},
    {"Taxon": "Spanish", "Segments": [33, 0, 58, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [33, 0, 46, -1, 31, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 0, 14, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 0, 14, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Friulian", "Segments": [33, 0, 52, -1, 7, 13, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 0, 46, -1, 0, -1, -1, -1, -1]}
  ]},
{
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    {"Taxon": "French", "Segments": [48, 32, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 35, 0, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 12, 57, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [16, -1, 60, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [16, -1, 60, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [48, 68, 31, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 32, 64, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 32, 31, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 32, 7, 13, -1, -1]}
  ]}
}
```

Appendix 1 - Tongue Twister Configuration

```
}},
{"Name": "New", "Data": [
  {"Taxon": "Latin", "Segments": [13, -1, 6, 8, 15, 14]},
  {"Taxon": "French", "Segments": [13, -1, 15, 18, 6, -1]},
  {"Taxon": "Spanish", "Segments": [13, 8, 0, 67, 6, -1]},
  {"Taxon": "Italian", "Segments": [13, -1, 9, 18, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 6, 18, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [13, -1, 6, 18, 15, -1]},
  {"Taxon": "Catalan", "Segments": [13, -1, 9, 8, -1, -1]},
  {"Taxon": "Walloon", "Segments": [13, -1, 9, 18, 31, -1]},
  {"Taxon": "Friulian", "Segments": [38, -1, 21, 24, -1, -1]},
  {"Taxon": "Romanian", "Segments": [13, -1, 6, 8, -1, -1]}
]},
{"Name": "Old", "Data": [
  {"Taxon": "Latin", "Segments": [8, -1, 0, 20, 15, 32, 15, 14]},
  {"Taxon": "French", "Segments": [18, 12, 79, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [19, 12, 0, 34, 6, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [18, -1, 31, 51, -1, 51, 12, 6]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 60, -1, -1, 35, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [18, -1, 0, -1, -1, 35, 15, -1]},
  {"Taxon": "Catalan", "Segments": [18, -1, 0, -1, -1, 35, -1, -1]},
  {"Taxon": "Walloon", "Segments": [18, 37, -1, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [18, 12, 0, -1, -1, -1, 7, -1]},
  {"Taxon": "Romanian", "Segments": [18, -1, 0, 81, -1, -1, -1, -1]}
]},
{"Name": "Good", "Data": [
  {"Taxon": "Latin", "Segments": [19, -1, 6, 13, 15, 14]},
  {"Taxon": "French", "Segments": [19, -1, 61, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [19, 8, 0, 13, 6, -1]},
  {"Taxon": "Italian", "Segments": [19, 8, 73, 13, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 61, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [19, -1, 61, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [19, -1, 9, 13, -1, -1]},
  {"Taxon": "Walloon", "Segments": [19, -1, 61, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [19, -1, 9, 13, -1, -1]},
  {"Taxon": "Romanian", "Segments": [19, -1, 15, 13, -1, -1]}
]},
{"Name": "Bad", "Data": [
  {"Taxon": "Latin", "Segments": [26, 27, 32, 15, 14]},
  {"Taxon": "French", "Segments": [26, 27, 32, -1, -1]},
  {"Taxon": "Spanish", "Segments": [26, 27, 32, 6, -1]},
  {"Taxon": "Italian", "Segments": [26, 27, 32, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [26, 27, 8, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [26, 27, 8, -1, -1]},
  {"Taxon": "Catalan", "Segments": [26, 27, 32, -1, -1]},
  {"Taxon": "Walloon", "Segments": [26, 73, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [26, 53, 32, -1, -1]}
]},
{"Name": "Rotten", "Data": [
  {"Taxon": "Latin", "Segments": [48, 15, 20, 33, 7, 23, 15, 14]},
  {"Taxon": "Spanish", "Segments": [48, 6, 50, 28, 7, 50, 6, -1]},
  {"Taxon": "Italian", "Segments": [48, 15, 20, 33, 7, 23, 6, -1]},
  {"Taxon": "Catalan", "Segments": [48, 15, 50, 28, 7, 20, -1, -1]},
  {"Taxon": "Romanian", "Segments": [48, 15, 20, 33, 0, 23, -1, -1]}
]},
{"Name": "Rotten-Putrem", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [48, 15, 20, 33, 0, 26]},
  "Taxon": "Spanish", "Segments": [48, 6, 50, 28, 0, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [48, 6, 23, 28, 7, -1]},
  "Taxon": "Portuguese", "Segments": [48, 6, 50, 28, 47, -1]}
}],
{
  "Name": "Dirty", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 33, 23, 7, 23, 15, 14]},
    {"Taxon": "Spanish", "Segments": [14, 6, 28, 23, 7, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 9, 33, 23, 7, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 9, 28, 23, 7, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 9, 28, 23, 7, 23, 15, -1]}
  ]
},
{
  "Name": "Dirty-Spurcus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 15, 33, 65, 15, 14]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 9, 33, 51, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 15, 28, 51, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 48, 15, 28, 51, 15, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 9, 33, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 48, 15, 33, 51, -1, -1]}
  ]
},
{
  "Name": "Straight", "Data": [
    {"Taxon": "Latin", "Segments": [23, 37, 33, -1, 25, 51, 20, 15, 14]},
    {"Taxon": "French", "Segments": [23, -1, 36, 8, 27, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 33, -1, 7, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 7, 28, -1, 59, -1, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 28, -1, 60, -1, 20, 15, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 28, -1, 31, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, -1, 33, -1, 72, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, -1, 33, -1, 31, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 33, -1, 0, 48, 20, -1, -1]}
  ]
},
{
  "Name": "Round", "Data": [
    {"Taxon": "Latin", "Segments": [33, 6, 20, 15, 13, 23, 15, 14]},
    {"Taxon": "French", "Segments": [36, 61, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 0, 23, 6, 13, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 7, 20, 6, 13, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 0, 23, 61, -1, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 47, 23, 61, -1, 23, 15, -1]},
    {"Taxon": "Catalan", "Segments": [33, 4, 23, 6, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 61, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 27, 33, 9, 13, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 4, 20, 15, 13, 23, -1, -1]}
  ]
},
{
  "Name": "SharpAsAKnife", "Data": [
    {"Taxon": "Latin", "Segments": [27, 51, 21, 20, 15, 14]},
    {"Taxon": "Spanish", "Segments": [27, 85, 15, 50, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [29, 85, 15, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 1, 15, 20, -1, -1]}
  ]
},
{
  "Name": "DullAsAKnife", "Data": [
    {"Taxon": "Latin", "Segments": [40, 0, 19, 0, 20, 0, 26]},
    {"Taxon": "Italian", "Segments": [31, 19, 0, 20, 0, -1, -1]}
  ]
},
{
  "Name": "DullAsAKnife-Retusus", "Data": [
    {"Taxon": "Latin", "Segments": [33, 0, 20, 21, 14, 15, 14]},
    {"Taxon": "Italian", "Segments": [33, 0, 20, 15, 49, 6, -1]}
  ]
}
```

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```
}},
{"Name": "Smooth", "Data": [
  {"Taxon": "Latin", "Segments": [14, 15, 53, 8, 0, 26]},
  {"Taxon": "Italian", "Segments": [14, 6, 27, 18, 0, -1]},
  {"Taxon": "Catalan", "Segments": [14, 15, 27, 8, -1, -1]}
]},
{"Name": "Smooth-Nitidus", "Data": [
  {"Taxon": "Latin", "Segments": [13, 7, 20, 7, 23, 15, 14]},
  {"Taxon": "French", "Segments": [13, 31, 20, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [13, 7, 50, 7, -1, 6, -1]},
  {"Taxon": "Italian", "Segments": [13, 0, 20, -1, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, 31, 10, 15, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [13, 31, 10, 15, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [13, 31, 20, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, 31, 20, -1, -1, -1, -1]},
  {"Taxon": "Romanian", "Segments": [13, 0, 20, 0, 23, -1, -1]}
]},
{"Name": "Wet", "Data": [
  {"Taxon": "Latin", "Segments": [21, 26, 7, 23, 15, 14]},
  {"Taxon": "Italian", "Segments": [15, 26, 7, 23, 6, -1]},
  {"Taxon": "Friulian", "Segments": [15, 26, 7, 23, -1, -1]},
  {"Taxon": "Romanian", "Segments": [15, 26, 0, 23, -1, -1]}
]},
{"Name": "Wet-Udus", "Data": [
  {"Taxon": "Latin", "Segments": [21, 23, 15, 14]},
  {"Taxon": "Romanian", "Segments": [15, 23, -1, -1]}
]},
{"Name": "Dry", "Data": [
  {"Taxon": "Latin", "Segments": [14, 7, 51, 51, 15, 14]},
  {"Taxon": "French", "Segments": [14, 31, -1, 51, -1, -1]},
  {"Taxon": "Spanish", "Segments": [14, 0, -1, 51, 6, -1]},
  {"Taxon": "Italian", "Segments": [14, 0, 51, 51, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 51, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 0, -1, 51, 15, -1]},
  {"Taxon": "Catalan", "Segments": [14, 31, 51, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [14, 31, 46, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [14, 31, -1, 51, -1, -1]},
  {"Taxon": "Romanian", "Segments": [14, 0, 51, -1, -1, -1]}
]},
{"Name": "Correct", "Data": [
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  {"Taxon": "Italian", "Segments": [51, 6, 33, 33, 0, 20, 20, 6, -1]}
]},
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  {"Taxon": "Latin", "Segments": [48, 33, 6, 51, 14, 7, -1, -1, 26, 15, 14]},
  {"Taxon": "Spanish", "Segments": [48, 28, 6, 34, -1, 7, -1, -1, 26, 6, -1]},
  {"Taxon": "Italian", "Segments": [48, 33, 9, 14, 14, 7, -1, -1, 26, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [48, 28, 6, 14, 7, -1, -1, 26, 15, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [48, 28, 6, 14, 7, -1, -1, 26, 15, -1, -1]},
  {"Taxon": "Catalan", "Segments": [48, 28, 6, -1, -1, -1, 7, 49, 26, 0, -1]},
  {"Taxon": "Friulian", "Segments": [48, 33, 6, -1, 14, 7, -1, -1, 26, -1, -1]}
]},
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  {"Taxon": "Catalan", "Segments": [4, -1, 48, 28, 9, 48, -1, -1]},
  {"Taxon": "Romanian", "Segments": [27, -1, 48, 33, 39, 48, -1, 0]}
```

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```
}},
{"Name": "Near-Pressus", "Data": [
  {"Taxon": "Latin", "Segments": [48, 33, 0, 14, 14, 15, 14]},
  {"Taxon": "French", "Segments": [48, 36, 0, -1, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [48, 33, 31, 14, 14, 6, -1]},
  {"Taxon": "Walloon", "Segments": [48, 33, 31, -1, -1, -1, -1]}
]},
{"Name": "Near-Vicinus", "Data": [
  {"Taxon": "Latin", "Segments": [8, -1, 37, 51, 37, 13, 15, 14]},
  {"Taxon": "French", "Segments": [18, 8, 27, 49, 62, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [19, -1, 0, 58, 7, 13, 6, -1]},
  {"Taxon": "Italian", "Segments": [18, -1, 7, 46, 7, 13, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 7, 49, 7, 38, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [18, -1, 7, 49, 7, 38, 15, -1]},
  {"Taxon": "Catalan", "Segments": [19, -1, 4, -1, 7, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [18, -1, 7, 3, 64, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [18, -1, 7, 46, 7, 13, -1, -1]},
  {"Taxon": "Romanian", "Segments": [18, -1, 0, 46, 7, 13, -1, -1]}
]},
{"Name": "Near-Circa", "Data": [
  {"Taxon": "Latin", "Segments": [51, 7, 33, 51, 27]},
  {"Taxon": "French", "Segments": [58, 0, 28, 51, 27]}
]},
{"Name": "Far", "Data": [
  {"Taxon": "French", "Segments": [32, 8, 62, -1, 20, 62, -1, -1]},
  {"Taxon": "Italian", "Segments": [32, -1, 6, 13, 20, 27, 13, 6]},
  {"Taxon": "Catalan", "Segments": [35, -1, 15, 13, 20, 27, -1, -1]},
  {"Taxon": "Friulian", "Segments": [32, -1, 6, 13, 20, 27, 13, -1]}
]},
{"Name": "Right-Dextrem", "Data": [
  {"Taxon": "Latin", "Segments": [23, -1, 0, 51, 14, 20, 33, 15, 26]},
  {"Taxon": "Spanish", "Segments": [23, 12, 0, -1, 14, 20, 28, 6, -1]},
  {"Taxon": "Italian", "Segments": [23, -1, 31, -1, 14, 20, 33, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [23, -1, 31, -1, 14, 20, 28, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [23, -1, 31, -1, 16, 20, 28, 15, -1]},
  {"Taxon": "Catalan", "Segments": [23, -1, 0, -1, 14, 20, 28, 4, -1]},
  {"Taxon": "Friulian", "Segments": [23, 12, 0, -1, 14, 20, 33, 7, -1]}
]},
{"Name": "Left", "Data": [
  {"Taxon": "Latin", "Segments": [14, 7, 13, -1, 7, 14, 20, 33, 15, 26]},
  {"Taxon": "French", "Segments": [14, 4, 13, -1, 31, 14, 20, 36, -1, -1]},
  {"Taxon": "Spanish", "Segments": [14, 7, 13, 12, 0, 14, 20, 28, 6, -1]},
  {"Taxon": "Italian", "Segments": [14, 7, 13, -1, 0, 14, 20, 33, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, -1, -1, -1, 31, 16, 20, 28, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [14, -1, -1, -1, 31, 16, 20, 28, 15, -1]},
  {"Taxon": "Friulian", "Segments": [14, 7, 38, -1, 0, 14, 20, 33, 7, -1]}
]},
{"Name": "Red", "Data": [
  {"Taxon": "Latin", "Segments": [33, 15, 14, 14, 15, 14]},
  {"Taxon": "French", "Segments": [36, 15, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [33, 6, -1, 34, 6, -1]},
  {"Taxon": "Italian", "Segments": [33, 6, 14, 14, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [36, 6, -1, 16, 94, -1]},
  {"Taxon": "Portuguese", "Segments": [36, 6, -1, 16, 15, -1]},
  {"Taxon": "Catalan", "Segments": [33, 6, -1, 14, -1, -1]},
  {"Taxon": "Friulian", "Segments": [33, 9, -1, 14, -1, -1]},
```


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```
{
  "Taxon": "Romanian", "Segments": [28, 6, -1, 16, 15, -1]}
}],
{
  "Name": "Red-Vermiculus", "Data": [
    {"Taxon": "Latin", "Segments": [18, 0, 33, 26, 7, 51, 15, 32, 15, 14]},
    {"Taxon": "French", "Segments": [18, 31, 36, 26, 86, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 0, 28, 26, 0, 34, 6, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [18, 0, 33, 26, 7, 35, -1, 35, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 0, 36, 26, 0, -1, -1, 35, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 47, 28, 26, 60, -1, -1, 35, 15, -1]},
    {"Taxon": "Catalan", "Segments": [19, 4, 33, 26, 31, -1, -1, 35, -1, -1]}
  ]
},
{
  "Name": "Red-Rubeus", "Data": [
    {"Taxon": "Latin", "Segments": [33, 15, -1, 19, 0, 15, 14]},
    {"Taxon": "French", "Segments": [36, 15, -1, 3, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 15, -1, 19, 12, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 9, 19, 19, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 15, -1, 19, 0, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 15, -1, 19, 0, 6, -1]},
    {"Taxon": "Catalan", "Segments": [33, 15, -1, 10, 0, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 9, -1, 46, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 17, -1, 19, -1, -1, -1]}
  ]
},
{
  "Name": "Green", "Data": [
    {"Taxon": "Latin", "Segments": [8, 7, 33, 7, 23, 0, 26]},
    {"Taxon": "French", "Segments": [18, 0, 36, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, 0, 28, -1, 23, 0, -1]},
    {"Taxon": "Italian", "Segments": [18, 0, 33, -1, 23, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 0, 28, -1, 23, 47, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 0, 28, -1, 23, 47, -1]},
    {"Taxon": "Catalan", "Segments": [18, 31, 28, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [18, 31, 36, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [18, 31, 33, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 0, 28, -1, 23, 0, -1]}
  ]
},
{
  "Name": "Yellow", "Data": [
    {"Taxon": "Latin", "Segments": [1, 27, 32, 19, 7, 13, 15, 14]},
    {"Taxon": "French", "Segments": [3, 6, -1, -1, -1, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 31, -1, -1, -1, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 27, 32, 19, 0, 13, -1, -1]}
  ]
},
{
  "Name": "Yellow-Amarellus", "Data": [
    {"Taxon": "Latin", "Segments": [27, 26, 27, 33, 0, 32, 32, 15, 14]},
    {"Taxon": "Spanish", "Segments": [27, 26, 27, 28, 7, -1, 5, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [29, 26, 27, 28, 31, -1, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [29, 26, 29, 28, 31, -1, 32, 15, -1]}
  ]
},
{
  "Name": "Yellow-Croceus", "Data": [
    {"Taxon": "Latin", "Segments": [51, 33, 6, 51, 0, 15, 14]},
    {"Taxon": "Italian", "Segments": [51, 33, 6, 46, 0, 6, -1]},
    {"Taxon": "Catalan", "Segments": [1, 28, 9, 51, -1, -1, -1]}
  ]
},
{
  "Name": "White", "Data": [
    {"Taxon": "Latin", "Segments": [27, 32, 19, 15, 14]},
    {"Taxon": "Spanish", "Segments": [27, 32, 19, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 32, 19, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 8, 18, 15, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [27, 32, 18, 15, -1]},
  "Taxon": "Catalan", "Segments": [27, 32, 19, -1, -1]},
  "Taxon": "Romanian", "Segments": [27, 32, 19, -1, -1]}
}],
{
  "Name": "One", "Data": [
    {"Taxon": "Latin", "Segments": [21, 13, 15, 26]},
    {"Taxon": "French", "Segments": [93, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [15, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [15, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [90, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [90, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [15, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [61, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [15, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, 13, 15, -1]}
  ]
},
{
  "Name": "Two-Duos", "Data": [
    {"Taxon": "Latin", "Segments": [23, 15, 2, 14]},
    {"Taxon": "French", "Segments": [23, -1, 79, -1]},
    {"Taxon": "Spanish", "Segments": [23, -1, 6, 14]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, -1, 17, 14]},
    {"Taxon": "Portuguese", "Segments": [23, -1, 17, 16]},
    {"Taxon": "Catalan", "Segments": [23, -1, 6, 14]},
    {"Taxon": "Walloon", "Segments": [23, -1, 72, -1]},
    {"Taxon": "Friulian", "Segments": [23, -1, 17, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 17, -1]}
  ]
},
{
  "Name": "Two-Duae", "Data": [
    {"Taxon": "Latin", "Segments": [23, 15, -1, 56]},
    {"Taxon": "Italian", "Segments": [23, 15, -1, 0]},
    {"Taxon": "Romanian", "Segments": [23, 6, 8, 4]}
  ]
},
{
  "Name": "Two-Duas", "Data": [
    {"Taxon": "Latin", "Segments": [23, 15, 27, 14]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 15, 29, 14]},
    {"Taxon": "Portuguese", "Segments": [23, 15, 29, 16]}
  ]
},
{
  "Name": "Three", "Data": [
    {"Taxon": "Latin", "Segments": [20, 33, -1, 25, 14]},
    {"Taxon": "French", "Segments": [20, 36, 8, 84, -1]},
    {"Taxon": "Spanish", "Segments": [20, 28, -1, 0, 14]},
    {"Taxon": "Italian", "Segments": [20, 33, -1, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 28, -1, 0, 14]},
    {"Taxon": "Portuguese", "Segments": [20, 28, -1, 0, 16]},
    {"Taxon": "Catalan", "Segments": [20, 33, -1, 31, 14]},
    {"Taxon": "Walloon", "Segments": [20, 33, -1, 72, -1]},
    {"Taxon": "Friulian", "Segments": [20, 33, -1, 25, -1]},
    {"Taxon": "Romanian", "Segments": [20, 33, -1, 59, -1]}
  ]
},
{
  "Name": "Four", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 27, 20, 20, 8, 6, 33, -1]},
    {"Taxon": "French", "Segments": [51, -1, 27, -1, 20, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, 27, -1, 20, -1, -1, 28, 6]},
    {"Taxon": "Italian", "Segments": [51, 8, 27, 20, 20, -1, -1, 33, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 8, 27, -1, 20, -1, -1, 28, 15]},
    {"Taxon": "Portuguese", "Segments": [51, 8, 27, -1, 20, -1, -1, 28, 15]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [51, 8, 27, -1, 20, -1, -1, 28, 4]},
  "Taxon": "Walloon", "Segments": [51, 8, 27, -1, 20, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 8, 27, -1, 20, -1, -1, 33, 7]},
  "Taxon": "Romanian", "Segments": [48, -1, 27, -1, 20, -1, -1, 33, 15]}
}],
{
  "Name": "Five", "Data": [
    {"Taxon": "Latin", "Segments": [87, 37, 13, 87, -1, 0]},
    {"Taxon": "French", "Segments": [14, 64, -1, 51, -1, -1]},
    {"Taxon": "Spanish", "Segments": [58, 7, 13, 51, -1, 6]},
    {"Taxon": "Italian", "Segments": [46, 7, 75, 51, 8, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 44, -1, 51, -1, 15]},
    {"Taxon": "Portuguese", "Segments": [14, 44, -1, 51, -1, 15]},
    {"Taxon": "Catalan", "Segments": [14, 7, 75, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 64, -1, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [46, 7, 75, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [46, 7, 13, 46, -1, -1]}
  ]
},
{
  "Name": "Here", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 0, 51, 51, 15, 26, 40, 37, 51]},
    {"Taxon": "French", "Segments": [7, -1, -1, 14, -1, -1, -1, 7, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 27, -1, 51, -1, -1, -1, 7, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, -1, 51, 8, -1, -1, 7, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 27, -1, 51, -1, -1, -1, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 29, -1, 51, -1, -1, -1, 7, -1]},
    {"Taxon": "Catalan", "Segments": [-1, 27, -1, 51, -1, -1, -1, 7, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 27, -1, 51, -1, -1, -1, 7, -1]}
  ]
},
{
  "Name": "There", "Data": [
    {"Taxon": "Latin", "Segments": [7, 32, 32, 53, 51]},
    {"Taxon": "French", "Segments": [-1, -1, 32, 27, -1]},
    {"Taxon": "Spanish", "Segments": [27, -1, 5, 27, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 32, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 32, 27, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, -1, 32, 27, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 35, 27, -1]},
    {"Taxon": "Walloon", "Segments": [-1, -1, 32, 27, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 32, 27, -1]}
  ]
},
{
  "Name": "There-Ibi", "Data": [
    {"Taxon": "Latin", "Segments": [7, 19, 37]},
    {"Taxon": "Italian", "Segments": [-1, 18, 7]}
  ]
},
{
  "Name": "There-AdIbi", "Data": [
    {"Taxon": "Spanish", "Segments": [27, 7]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 7]},
    {"Taxon": "Portuguese", "Segments": [29, 7]}
  ]
},
{
  "Name": "Who-Qui", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 7, 14]},
    {"Taxon": "French", "Segments": [51, -1, 7, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 7, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 7, -1]},
    {"Taxon": "Walloon", "Segments": [51, -1, 37, -1]},
    {"Taxon": "Friulian", "Segments": [51, 8, 7, -1]}
  ]
},
{
  "Name": "Who-Quem", "Data": [
```

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```
{
  "Taxon": "Latin", "Segments": [87, -1, 0, 26, -1]},
  "Taxon": "Spanish", "Segments": [51, 12, 0, 13, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [51, -1, 41, -1, -1]},
  "Taxon": "Portuguese", "Segments": [51, -1, 54, -1, -1]},
  "Taxon": "Romanian", "Segments": [46, -1, 7, 13, 0]}
}],
{
  "Name": "What", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 7, 23]},
    {"Taxon": "French", "Segments": [51, 8, 27, -1]},
    {"Taxon": "Spanish", "Segments": [51, -1, 0, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 47, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 31, -1]},
    {"Taxon": "Walloon", "Segments": [51, 8, 57, -1]},
    {"Taxon": "Friulian", "Segments": [46, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [46, -1, 0, -1]}
  ]
},
{
  "Name": "When-Quando", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 27, 13, 23, 2]},
    {"Taxon": "French", "Segments": [51, -1, 43, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, 27, 13, 23, 6]},
    {"Taxon": "Italian", "Segments": [51, 8, 27, 13, 23, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 8, 45, -1, 23, 15]},
    {"Taxon": "Portuguese", "Segments": [51, 8, 45, -1, 23, 15]},
    {"Taxon": "Catalan", "Segments": [51, 8, 27, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [51, 8, 27, 13, 23, -1]},
    {"Taxon": "Friulian", "Segments": [51, 8, 27, 13, 20, -1]},
    {"Taxon": "Romanian", "Segments": [51, -1, 47, 13, 23, -1]}
  ]
},
{
  "Name": "How-Quomodo", "Data": [
    {"Taxon": "Latin", "Segments": [87, 2, 26, 6, 23, 6]},
    {"Taxon": "French", "Segments": [51, 9, 26, 43, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 6, 26, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [51, 6, 26, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 26, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 6, 26, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [51, 9, 26, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [51, 9, 26, 62, -1, -1]},
    {"Taxon": "Friulian", "Segments": [46, 0, 26, 21, 20, -1]},
    {"Taxon": "Romanian", "Segments": [51, 15, 26, -1, -1, -1]}
  ]
},
{
  "Name": "Not", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 13]},
    {"Taxon": "French", "Segments": [13, 42, -1]},
    {"Taxon": "Spanish", "Segments": [13, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 6, 13]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 63, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 63, -1]},
    {"Taxon": "Catalan", "Segments": [13, 6, -1]},
    {"Taxon": "Walloon", "Segments": [13, 42, -1]},
    {"Taxon": "Friulian", "Segments": [13, 6, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, -1]}
  ]
},
{
  "Name": "Not-Nec", "Data": [
    {"Taxon": "Latin", "Segments": [13, 0, 51]},
  ]
}
```

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```
{
  "Taxon": "French", "Segments": [13, 7, -1]},
  {"Taxon": "Spanish", "Segments": [13, 7, -1]},
  {"Taxon": "Italian", "Segments": [13, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, 41, -1]},
  {"Taxon": "Portuguese", "Segments": [13, 54, -1]},
  {"Taxon": "Catalan", "Segments": [13, 7, -1]},
  {"Taxon": "Walloon", "Segments": [13, 64, -1]}
}],
{"Name": "At", "Data": [
  {"Taxon": "Latin", "Segments": [27, 23]},
  {"Taxon": "French", "Segments": [27, -1]},
  {"Taxon": "Spanish", "Segments": [27, -1]},
  {"Taxon": "Italian", "Segments": [27, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [27, -1]},
  {"Taxon": "Portuguese", "Segments": [29, -1]},
  {"Taxon": "Catalan", "Segments": [27, -1]},
  {"Taxon": "Walloon", "Segments": [27, -1]},
  {"Taxon": "Friulian", "Segments": [27, -1]},
  {"Taxon": "Romanian", "Segments": [27, -1]}
]},
{"Name": "In-In", "Data": [
  {"Taxon": "Latin", "Segments": [7, 13]},
  {"Taxon": "Spanish", "Segments": [0, 13]},
  {"Taxon": "Italian", "Segments": [7, 13]},
  {"Taxon": "PortugueseBrazil", "Segments": [41, -1]},
  {"Taxon": "Portuguese", "Segments": [54, -1]},
  {"Taxon": "Catalan", "Segments": [4, 13]},
  {"Taxon": "Romanian", "Segments": [47, 13]}
]},
{"Name": "In-Deintus", "Data": [
  {"Taxon": "Latin", "Segments": [23, 0, 7, 13, 20, 15, 14]},
  {"Taxon": "French", "Segments": [23, 43, -1, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [23, 7, -1, 13, -1, -1, 14]}
]},
{"Name": "With-Cum", "Data": [
  {"Taxon": "Latin", "Segments": [51, 15, 26]},
  {"Taxon": "Spanish", "Segments": [51, 6, 13]},
  {"Taxon": "Italian", "Segments": [51, 6, 13]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 61, -1]},
  {"Taxon": "Portuguese", "Segments": [51, 61, -1]},
  {"Taxon": "Romanian", "Segments": [51, 15, -1]}
]},
{"Name": "With-Abhoc", "Data": [
  {"Taxon": "Latin", "Segments": [27, 19, 40, 6, 65]},
  {"Taxon": "French", "Segments": [27, 18, -1, 0, 51]},
  {"Taxon": "Walloon", "Segments": [27, 18, -1, 15, -1]}
]},
{"Name": "And-Et", "Data": [
  {"Taxon": "Latin", "Segments": [0, 20]},
  {"Taxon": "French", "Segments": [0, -1]},
  {"Taxon": "Spanish", "Segments": [7, -1]},
  {"Taxon": "Italian", "Segments": [0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, -1]},
  {"Taxon": "Portuguese", "Segments": [7, -1]},
  {"Taxon": "Catalan", "Segments": [7, -1]},
  {"Taxon": "Walloon", "Segments": [31, -1]},
```

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```
{
  "Taxon": "Friulian", "Segments": [0, -1]},
  {"Taxon": "Romanian", "Segments": [0, -1]}
]},
{"Name": "And-Si", "Data": [
  {"Taxon": "Latin", "Segments": [14, 37, 51]},
  {"Taxon": "French", "Segments": [14, 7, -1]},
  {"Taxon": "Spanish", "Segments": [14, 7, -1]},
  {"Taxon": "Italian", "Segments": [14, 7, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 44, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 44, -1]},
  {"Taxon": "Catalan", "Segments": [14, 7, -1]},
  {"Taxon": "Walloon", "Segments": [14, 7, -1]},
  {"Taxon": "Friulian", "Segments": [14, 7, -1]},
  {"Taxon": "Romanian", "Segments": [16, 7, -1]}
]},
{"Name": "Because-Quod", "Data": [
  {"Taxon": "Latin", "Segments": [87, 6, 23]},
  {"Taxon": "French", "Segments": [51, 4, -1]},
  {"Taxon": "Spanish", "Segments": [51, 0, -1]},
  {"Taxon": "Italian", "Segments": [51, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [51, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [51, 47, -1]},
  {"Taxon": "Catalan", "Segments": [51, 4, -1]},
  {"Taxon": "Walloon", "Segments": [51, 37, -1]},
  {"Taxon": "Friulian", "Segments": [51, 0, -1]},
  {"Taxon": "Romanian", "Segments": [51, 4, -1]}
]}
]
}
```