

Appendix 1 - Tongue Twister Configuration

```
{
  "Tree": "(Latin,(Romanian,(((Walloon,French),(((Portuguese,PortugueseBrazil),Spanish),Catalan)),(
  Friulian,Italian))))";
  "NumberOfStates": 1,
  "McmcSettings": {
    "FileOutput": "/Users/johnh/Desktop/Indelly/out/test_custom",
    "OnlyCompleteWords": "No",
    "Model": "Custom",
    "CalcMarginal": "No",
    "UseEigenSystem": "No",
    "NumCycles": 1000000,
    "PrintFreq": 10,
    "SampleFreq": 100,
    "TreeLengthPriorVal": 0.15
  },
  "Taxa": ["Latin", "French", "Spanish", "Italian", "PortugueseBrazil", "Portuguese", "Catalan", "
  Walloon", "Friulian", "Romanian"],
  "PriorFrequencies": [2.729306,2.550336,0.939597,0.715884,0.984340,0.089485,2.684564,4.116331,
  3.668904,1.565996,0.044743,0.671141,4.026846,3.489933,2.997763,3.937360,0.044743,1.655481,0.044743,
  1.208054,2.818792,3.042506,1.297539,0.268456,2.058166,1.968680,0.939597,4.295302,3.847875,1.163311,
  0.089485,0.134228,1.655481,3.042506,1.968680,0.850112,0.223714,0.223714,1.431767,1.879195,0.044743,
  0.089485,0.805369,0.044743,0.044743,0.715884,0.044743,3.847875,1.342282,0.223714,4.026846,0.044743,
  1.342282,0.044743,0.044743,0.044743,0.492170,0.178971,0.044743,0.044743,0.492170,2.505593,0.357942,
  0.044743,0.492170,0.626398,0.044743,0.447427,0.044743,0.089485,0.044743,0.447427,0.089485,0.447427,
  0.268456,2.818792,0.089485,0.223714,0.044743,0.134228,0.044743,0.134228,0.760626,0.536913,0.313199,
  0.626398,0.044743,0.536913,0.089485,0.357942,0.044743,0.715884,0.447427,0.044743,0.044743,0.626398
  ],
  "PartitionSets": [{"Name": "e", "Set": [0, 26]},{ "Name": "i", "Set": [7, 38]},{ "Name": "a", "Set"
  : [28, 52]},{ "Name": "u", "Set": [15, 22]},{ "Name": "o", "Set": [2, 6]},{ "Name": "ɔ", "Set": [9, 73
  ]},{ "Name": "ɛ", "Set": [32, 56]},{ "Name": "ø", "Set": [72, 79]},{ "Name": "Nasal Vowel", "Set": [41
  , 42, 43, 46, 53, 60, 62, 63, 64, 76, 82, 88, 89, 90, 91, 94]},{ "Name": "Vowel", "Set": [4, 11, 16
  , 18, 23, 30, 31, 40, 45, 55, 58, 59, 66, 70, 78, 80, 84, 86, 95]},{ "Name": "Nasal Consonant", "
  Set": [13, 27, 39, 75, 93]},{ "Name": "Non Syllabic Sonorant", "Set": [8, 12, 33, 34]},{ "Name": "
  Consonant", "Set": [1, 3, 5, 10, 14, 17, 19, 20, 21, 24, 25, 29, 35, 36, 37, 44, 47, 48, 49, 50,
  51, 54, 57, 61, 65, 67, 68, 69, 71, 74, 77, 81, 83, 85, 87, 92]}],
  "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": [-1, 7, -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]},
      { "Taxon": "French", "Segments": [13, 15, -1, -1]},
      { "Taxon": "Spanish", "Segments": [13, 6, -1, 14]},
      { "Taxon": "Italian", "Segments": [13, 2, 7, -1]},
      { "Taxon": "PortugueseBrazil", "Segments": [13, 16, -1, 14]},
      { "Taxon": "Portuguese", "Segments": [13, 9, -1, 17]},
      { "Taxon": "Walloon", "Segments": [13, 6, -1, -1]},
```

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

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```
{
  "Taxon": "Latin", "Segments": [24, 6, 27, 7, 13, 28]},
  {"Taxon": "French", "Segments": [24, 28, 27, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [24, 6, -1, -1, 39, 28]},
  {"Taxon": "Italian", "Segments": [24, 9, 13, -1, 13, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [24, 6, -1, -1, 13, 30]},
  {"Taxon": "Portuguese", "Segments": [24, 6, -1, -1, 13, 30]},
  {"Taxon": "Catalan", "Segments": [24, 9, -1, -1, 13, 4]},
  {"Taxon": "Walloon", "Segments": [24, 31, 27, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [24, 9, -1, -1, 13, 0]},
  {"Taxon": "Romanian", "Segments": [24, 40, 27, -1, 13, 4]}
}],
{
  "Name": "Child", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 25, 28, 13, 21, 0, 27]},
    {"Taxon": "French", "Segments": [41, -1, 25, 41, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [7, 13, 25, 28, 13, 21, 0, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 25, 28, 13, 21, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [42, -1, 25, 43, -1, 44, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [42, -1, 25, 43, -1, 21, 45, -1]},
    {"Taxon": "Walloon", "Segments": [32, -1, 25, 41, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Child-Ninnus", "Data": [
    {"Taxon": "Spanish", "Segments": [13, 7, 39, 6]},
    {"Taxon": "Italian", "Segments": [13, 7, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 0, 13, 46]},
    {"Taxon": "Portuguese", "Segments": [13, 0, 13, 46]},
    {"Taxon": "Catalan", "Segments": [13, 0, 13, -1]}
  ]
},
{
  "Name": "Wife", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 6, 13, 14, 28]},
    {"Taxon": "French", "Segments": [0, -1, 47, 15, -1, 48, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 47, 6, -1, 14, 28]},
    {"Taxon": "Italian", "Segments": [-1, 14, 47, 9, -1, 48, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 47, 6, -1, 48, 28]},
    {"Taxon": "Portuguese", "Segments": [45, 17, 47, 6, -1, 48, 30]},
    {"Taxon": "Catalan", "Segments": [4, 14, 47, 9, -1, 48, 4]}
  ]
},
{
  "Name": "Husband", "Data": [
    {"Taxon": "Latin", "Segments": [27, 28, 34, 38, 21, 15, 14]},
    {"Taxon": "French", "Segments": [27, 28, 37, 7, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, 29, 7, 49, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 28, 34, 7, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 28, 29, 7, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 30, 29, 7, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [27, 28, 29, 7, 21, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 28, 34, 38, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 4, 34, 7, 21, -1, -1]}
  ]
},
{
  "Name": "Husband-Sponsus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 6, 13, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 47, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 47, 6, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 47, 9, -1, 48, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 47, 6, -1, 48, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [45, 17, 47, 6, -1, 48, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 47, 9, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 47, 2, -1, 14, -1, -1]}
  ]
}
```

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```
}},
{"Name": "Husband-Socius", "Data": [
  {"Taxon": "Latin", "Segments": [14, 6, 50, 7, 15, 14]},
  {"Taxon": "Italian", "Segments": [14, 9, 44, -1, 6, -1]},
  {"Taxon": "Romanian", "Segments": [14, 6, 51, -1, -1, -1]}
]},
{"Name": "Mother", "Data": [
  {"Taxon": "Latin", "Segments": [27, 52, 21, 34, 0, 27]},
  {"Taxon": "French", "Segments": [27, 0, -1, 37, -1, -1]},
  {"Taxon": "Spanish", "Segments": [27, 28, 49, 29, 0, -1]},
  {"Taxon": "Italian", "Segments": [27, 52, 24, 34, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [27, 53, -1, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [27, 53, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [27, 28, -1, 29, 4, -1]},
  {"Taxon": "Walloon", "Segments": [27, 0, -1, 54, -1, -1]},
  {"Taxon": "Friulian", "Segments": [27, 28, -1, 34, 7, -1]}
]},
{"Name": "Father", "Data": [
  {"Taxon": "Latin", "Segments": [47, 28, 21, 34, 0]},
  {"Taxon": "French", "Segments": [47, 0, -1, 37, -1]},
  {"Taxon": "Spanish", "Segments": [47, 28, 49, 29, 0]},
  {"Taxon": "Italian", "Segments": [47, 52, 24, 34, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [47, 55, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [47, 55, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [47, 28, -1, 29, 4]},
  {"Taxon": "Walloon", "Segments": [47, 56, -1, 34, -1]},
  {"Taxon": "Friulian", "Segments": [47, 28, -1, 34, 7]}
]},
{"Name": "Father-Tata", "Data": [
  {"Taxon": "Latin", "Segments": [21, 28, 21, 28]},
  {"Taxon": "Spanish", "Segments": [21, 28, 21, 28]},
  {"Taxon": "Italian", "Segments": [21, 28, 21, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [21, 28, 21, 28]},
  {"Taxon": "Portuguese", "Segments": [21, 28, 21, 28]},
  {"Taxon": "Romanian", "Segments": [21, 28, 21, 4]}
]},
{"Name": "Animal", "Data": [
  {"Taxon": "Latin", "Segments": [28, 13, 7, 27, 28, 33, 7, 28]},
  {"Taxon": "French", "Segments": [6, -1, -1, 27, 28, -1, 12, -1]},
  {"Taxon": "Spanish", "Segments": [28, 33, 7, 27, 28, 39, -1, 28]},
  {"Taxon": "Friulian", "Segments": [-1, 13, 0, 27, 52, 33, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 13, 4, 27, 28, -1, 12, 0]}
]},
{"Name": "Animal-Bestia", "Data": [
  {"Taxon": "Latin", "Segments": [20, 26, 14, 21, 7, 28]},
  {"Taxon": "Italian", "Segments": [20, 7, 17, 17, -1, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [20, 7, -1, 17, -1, 30]},
  {"Taxon": "Portuguese", "Segments": [20, 7, -1, 17, -1, 30]},
  {"Taxon": "Friulian", "Segments": [20, 7, 14, -1, -1, -1]}
]},
{"Name": "Fish-Piskem", "Data": [
  {"Taxon": "Latin", "Segments": [47, 7, 14, 50, 0, 27]},
  {"Taxon": "Spanish", "Segments": [47, 0, 57, -1, -1, -1]},
  {"Taxon": "Italian", "Segments": [47, 0, 17, 17, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [47, 58, 17, -1, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [47, 59, 17, -1, 45, -1]},
```

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```
{
  "Taxon": "Catalan", "Segments": [47, 0, 17, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [47, 32, 14, -1, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, 0, 17, 21, 0, -1]}
}],
{
  "Name": "Fish-Pescion", "Data": [
    {"Taxon": "French", "Segments": [47, 8, 28, 14, 60]},
    {"Taxon": "Walloon", "Segments": [47, -1, 32, 61, 60]}
  ]
},
{
  "Name": "Bird-Avem", "Data": [
    {"Taxon": "Latin", "Segments": [28, 8, 0, 27]},
    {"Taxon": "Spanish", "Segments": [28, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 19, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [28, 19, 45, -1]},
    {"Taxon": "Catalan", "Segments": [28, 8, -1, -1]}
  ]
},
{
  "Name": "Bird-Avicellum", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 28, 8, 7, -1, 50, -1, 0, 33, 33, 15, 27]},
    {"Taxon": "French", "Segments": [8, 28, -1, -1, -1, 48, -1, 6, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 15, -1, 21, 44, -1, 32, 33, 33, 6, -1]},
    {"Taxon": "Catalan", "Segments": [-1, -1, 15, -1, -1, 14, -1, 0, -1, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, -1, 22, -1, -1, 61, -1, 56, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 15, -1, -1, 44, 12, 32, -1, 33, -1, -1]}
  ]
},
{
  "Name": "Bird-Passerem", "Data": [
    {"Taxon": "Latin", "Segments": [47, 28, 14, 14, 0, 34, 0, 27]},
    {"Taxon": "Spanish", "Segments": [47, 28, -1, 35, 28, 29, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 28, 14, 14, 0, 34, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 28, -1, 14, 30, 29, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 28, -1, 14, 30, 29, 15, -1]},
    {"Taxon": "Romanian", "Segments": [47, 28, -1, 14, 4, 29, 0, -1]}
  ]
},
{
  "Name": "Dog", "Data": [
    {"Taxon": "Latin", "Segments": [50, -1, 28, 13, 0, 27]},
    {"Taxon": "French", "Segments": [17, 12, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, -1, 28, 13, -1, -1]},
    {"Taxon": "Italian", "Segments": [50, -1, 28, 13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 63, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 63, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [50, -1, 28, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, -1, 64, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, -1, 28, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, -1, 66, 13, 0, -1]}
  ]
},
{
  "Name": "Louse", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 0, 24, 15, -1, 50, 33, 15, 14]},
    {"Taxon": "French", "Segments": [47, -1, 15, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 12, 6, -1, -1, -1, 35, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, -1, 7, 24, 9, 50, 50, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 7, -1, 6, -1, 36, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [47, -1, 7, -1, 6, -1, 36, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [47, -1, 6, -1, -1, -1, 36, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [47, 12, 15, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [47, -1, 0, 24, 6, -1, 33, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, -1, 4, 24, 15, -1, 50, 12, 0, -1]}
  ]
},
{
  "Name": "Snake", "Data": [
```

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```
{
  "Taxon": "Latin", "Segments": [14, -1, 0, 34, 47, -1, 0, 13, 21, 0, 27]},
  "Taxon": "French", "Segments": [14, -1, 0, 37, 47, -1, 41, -1, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [14, -1, 0, 29, 47, 12, 0, 13, 21, 0, -1]},
  "Taxon": "Italian", "Segments": [14, -1, 0, 34, 47, -1, 0, 13, 21, 0, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, 37, 47, -1, 64, -1, 44, 7, -1]},
  "Taxon": "Portuguese", "Segments": [14, -1, 45, 29, 47, -1, 64, -1, 21, 45, -1]},
  "Taxon": "Catalan", "Segments": [14, -1, 4, 34, 47, -1, 0, 13, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [14, 12, 32, 37, 47, -1, 64, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [14, -1, 28, 34, 47, -1, 7, 13, 21, -1, -1]},
  "Taxon": "Romanian", "Segments": [17, -1, 28, 29, 47, -1, 0, -1, -1, -1, -1]}
}],
{
  "Name": "Worm", "Data": [
    {
      "Taxon": "Latin", "Segments": [8, 0, 34, 27, 0, 27]},
      "Taxon": "French", "Segments": [19, 0, 37, -1, -1, -1]},
      "Taxon": "Spanish", "Segments": [20, 0, 29, 27, 0, -1]},
      "Taxon": "Italian", "Segments": [19, 0, 34, 27, 0, -1]},
      "Taxon": "PortugueseBrazil", "Segments": [19, 0, 37, 27, 7, -1]},
      "Taxon": "Portuguese", "Segments": [19, 0, 29, 27, 45, -1]},
      "Taxon": "Catalan", "Segments": [19, 32, 29, 27, -1, -1]},
      "Taxon": "Walloon", "Segments": [19, 12, 32, 54, -1, -1]},
      "Taxon": "Friulian", "Segments": [19, 12, 32, 34, -1, -1]},
      "Taxon": "Romanian", "Segments": [19, 12, 0, 34, 27, 0]}
  ],
  "Name": "Tree", "Data": [
    {
      "Taxon": "Latin", "Segments": [28, 34, 20, 6, 34, 0, 27]},
      "Taxon": "French", "Segments": [28, 37, 20, -1, 37, -1, -1]},
      "Taxon": "Spanish", "Segments": [28, 29, 67, 6, 33, -1, -1]},
      "Taxon": "Italian", "Segments": [28, 33, 20, 0, 29, 6, -1]},
      "Taxon": "PortugueseBrazil", "Segments": [28, 37, 19, 6, 29, 7, -1]},
      "Taxon": "Portuguese", "Segments": [28, 29, 19, 15, 29, 45, -1]},
      "Taxon": "Catalan", "Segments": [28, -1, 20, -1, 29, 4, -1]},
      "Taxon": "Walloon", "Segments": [2, -1, 20, -1, -1, -1, -1]},
      "Taxon": "Friulian", "Segments": [28, 34, 20, 15, 33, -1, -1]},
      "Taxon": "Romanian", "Segments": [28, 34, 20, 6, 34, 0, -1]}
  ],
  "Name": "Forest", "Data": [
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      "Taxon": "Latin", "Segments": [14, 7, 33, 8, 28]},
      "Taxon": "Spanish", "Segments": [14, 0, 33, 20, 28]},
      "Taxon": "Italian", "Segments": [14, 0, 33, 19, 28]},
      "Taxon": "PortugueseBrazil", "Segments": [14, 32, 8, 19, 28]},
      "Taxon": "Portuguese", "Segments": [14, 32, 68, 19, 30]},
      "Taxon": "Catalan", "Segments": [14, 0, 33, 20, 28]},
      "Taxon": "Friulian", "Segments": [14, 32, 33, 19, 0]}
  ],
  "Name": "Stick", "Data": [
    {
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      "Taxon": "French", "Segments": [47, 28, 33, -1, -1]},
      "Taxon": "Spanish", "Segments": [47, 28, 33, 6, -1]},
      "Taxon": "Italian", "Segments": [47, 28, 33, 6, -1]},
      "Taxon": "PortugueseBrazil", "Segments": [47, 28, 8, -1, -1]},
      "Taxon": "Portuguese", "Segments": [47, 28, 8, -1, -1]},
      "Taxon": "Catalan", "Segments": [47, 28, 33, -1, -1]},
      "Taxon": "Friulian", "Segments": [47, 52, 33, -1, -1]},
      "Taxon": "Romanian", "Segments": [47, 28, 29, -1, -1]}
  ],
  "Name": "Fruit", "Data": [
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Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [25, 34, 22, -1, 50, 21, 15, 14]},
  "Taxon": "French", "Segments": [25, 37, 69, 7, -1, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [25, 29, 15, -1, -1, 21, 6, -1]},
  "Taxon": "Italian", "Segments": [25, 34, 15, -1, 21, 21, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [25, 29, 15, -1, -1, 21, 30, -1]},
  "Taxon": "Portuguese", "Segments": [25, 29, 15, -1, -1, 21, 30, -1]},
  "Taxon": "Catalan", "Segments": [25, 29, 15, 12, -1, 21, -1, -1]},
  "Taxon": "Walloon", "Segments": [25, 54, 23, -1, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [25, 34, 15, -1, -1, 21, -1, -1]},
  "Taxon": "Romanian", "Segments": [25, 34, 15, -1, 50, 21, -1, -1]}
}],
{
  "Name": "Seed", "Data": [
    {
      "Taxon": "Latin", "Segments": [14, 26, 27, 0, 13]},
      "Taxon": "Italian", "Segments": [14, 0, 27, 0, -1]}
    ]
  },
{
  "Name": "Seed-Sementis", "Data": [
    {
      "Taxon": "Latin", "Segments": [14, 0, 27, -1, 0, 13, 21, 7, 14]},
      "Taxon": "French", "Segments": [14, 4, 27, -1, 41, -1, -1, -1, 14]},
      "Taxon": "Spanish", "Segments": [14, 7, 27, 12, 0, 13, 21, 0, -1]},
      "Taxon": "Italian", "Segments": [14, 0, 27, -1, 0, 13, 21, 0, -1]},
      "Taxon": "PortugueseBrazil", "Segments": [14, 0, 27, -1, 64, -1, 44, 7, -1]},
      "Taxon": "Portuguese", "Segments": [14, 45, 27, -1, 64, -1, 21, 45, -1]},
      "Taxon": "Catalan", "Segments": [14, 4, 27, -1, 0, 13, -1, -1, -1]},
      "Taxon": "Walloon", "Segments": [14, 7, 27, -1, 64, -1, 14, -1, -1]},
      "Taxon": "Friulian", "Segments": [14, 0, 27, -1, 32, 13, 44, 32, -1]},
      "Taxon": "Romanian", "Segments": [14, 4, 27, -1, 45, 13, 44, 4, -1]}
    ]
  },
{
  "Name": "Seed-Granum", "Data": [
    {
      "Taxon": "Latin", "Segments": [1, 34, 52, 13, 15, 27]},
      "Taxon": "French", "Segments": [1, 37, 32, 13, -1, -1]},
      "Taxon": "Spanish", "Segments": [1, 29, 28, 13, 6, -1]},
      "Taxon": "Italian", "Segments": [1, 34, 28, 13, 6, -1]},
      "Taxon": "PortugueseBrazil", "Segments": [1, 29, 63, -1, -1, -1]},
      "Taxon": "Portuguese", "Segments": [1, 29, 63, -1, -1, -1]},
      "Taxon": "Catalan", "Segments": [1, 29, 28, -1, -1, -1]},
      "Taxon": "Walloon", "Segments": [1, 34, 7, 13, -1, -1]},
      "Taxon": "Friulian", "Segments": [1, 34, 28, 13, -1, -1]},
      "Taxon": "Romanian", "Segments": [1, 34, 70, -1, -1, -1]}
    ]
  },
{
  "Name": "Leaf", "Data": [
    {
      "Taxon": "Latin", "Segments": [25, -1, 6, 33, 7, 28]},
      "Taxon": "French", "Segments": [25, -1, 31, 12, -1, -1]},
      "Taxon": "Spanish", "Segments": [-1, -1, 6, 35, -1, 28]},
      "Taxon": "Italian", "Segments": [25, -1, 9, 36, 36, 28]},
      "Taxon": "PortugueseBrazil", "Segments": [25, -1, 6, 36, -1, 30]},
      "Taxon": "Portuguese", "Segments": [25, -1, 6, 36, -1, 30]},
      "Taxon": "Catalan", "Segments": [25, -1, 15, 36, -1, 4]},
      "Taxon": "Walloon", "Segments": [25, -1, 16, -1, -1, -1]},
      "Taxon": "Friulian", "Segments": [25, 8, 0, -1, -1, 0]},
      "Taxon": "Romanian", "Segments": [25, -1, 40, -1, 12, 0]}
    ]
  },
{
  "Name": "Leaf-Frondea", "Data": [
    {
      "Taxon": "Latin", "Segments": [25, 34, 6, 13, 24, 0, 28]},
      "Taxon": "Italian", "Segments": [25, 34, 6, 13, 71, -1, 28]},
      "Taxon": "PortugueseBrazil", "Segments": [25, 29, 60, -1, 14, -1, 30]},
      "Taxon": "Portuguese", "Segments": [25, 29, 60, -1, 14, -1, 30]},
    ]
  }
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian", "Segments": [25, 29, 15, 13, 48, -1, 4]}
}},
{"Name": "Root", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 34, 52, 24, 38, 50, 0, 27]},
  {"Taxon": "Spanish", "Segments": [-1, 34, 28, -1, 7, 57, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, 37, 28, -1, 7, 14, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [-1, 37, 30, -1, 7, 17, -1, -1]},
  {"Taxon": "Catalan", "Segments": [4, 34, 32, 33, -1, -1, -1, -1]}
]},
{"Name": "Root-Radix", "Data": [
  {"Taxon": "Latin", "Segments": [34, 52, 24, 38, 50, 0]},
  {"Taxon": "French", "Segments": [37, 28, 24, 7, -1, -1]},
  {"Taxon": "Italian", "Segments": [34, 28, 24, 38, 44, 0]}
]},
{"Name": "Root-Radicina", "Data": [
  {"Taxon": "Latin", "Segments": [34, 52, 24, 38, 50, 38, 13, 28]},
  {"Taxon": "French", "Segments": [37, 28, -1, -1, 14, 7, 13, -1]},
  {"Taxon": "Walloon", "Segments": [54, 32, -1, -1, 14, 32, 13, -1]},
  {"Taxon": "Romanian", "Segments": [34, 4, 24, 4, 44, 7, 13, 4]}
]},
{"Name": "BarkOfATree", "Data": [
  {"Taxon": "Latin", "Segments": [50, 6, 34, 21, 7, 50, 0, 27]},
  {"Taxon": "Italian", "Segments": [50, 6, 34, 21, 7, 44, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 9, 37, 44, 7, 14, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 9, 29, 21, 7, 14, 45, -1]}
]},
{"Name": "BarkOfATree-Corticea", "Data": [
  {"Taxon": "Latin", "Segments": [50, 6, 34, 21, 7, -1, 50, 0, 28]},
  {"Taxon": "Spanish", "Segments": [50, 6, 29, 21, 0, -1, 57, -1, 28]},
  {"Taxon": "Italian", "Segments": [50, 6, 34, 21, 0, 21, 44, 28, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 6, 37, 44, 7, -1, 14, 30, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 15, 29, 21, 7, -1, 14, 30, -1]}
]},
{"Name": "BarkOfATree-Skortea", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 14, 50, -1, 6, 34, 21, 0, 28]},
  {"Taxon": "French", "Segments": [0, -1, 50, -1, 6, 37, 14, -1, -1]},
  {"Taxon": "Italian", "Segments": [-1, 14, 50, -1, 9, 34, 51, -1, 28]},
  {"Taxon": "Catalan", "Segments": [4, 14, 50, -1, 9, 34, 14, -1, 4]},
  {"Taxon": "Walloon", "Segments": [-1, 14, 50, 8, 28, 14, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 14, 50, 8, 28, 34, 51, -1, 0]},
  {"Taxon": "Romanian", "Segments": [-1, 14, 50, -1, 40, 29, 51, -1, 4]}
]},
{"Name": "Flower", "Data": [
  {"Taxon": "Latin", "Segments": [25, 33, 2, 34, 0, 27]},
  {"Taxon": "French", "Segments": [25, 33, 31, 37, -1, -1]},
  {"Taxon": "Spanish", "Segments": [25, 33, 6, 29, -1, -1]},
  {"Taxon": "Italian", "Segments": [25, 12, 2, 29, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [25, 33, 6, 37, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [25, 33, 6, 29, -1, -1]},
  {"Taxon": "Catalan", "Segments": [25, 33, 9, -1, -1, -1]},
  {"Taxon": "Walloon", "Segments": [25, 33, 72, 37, -1, -1]},
  {"Taxon": "Friulian", "Segments": [25, 33, 2, 34, -1, -1]},
  {"Taxon": "Romanian", "Segments": [25, 33, 40, 29, 0, -1]}
]},
{"Name": "Grass", "Data": [
  {"Taxon": "Latin", "Segments": [-1, 61, 0, 34, 20, 28]},
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [-1, -1, 32, 37, 20, -1]},
  {"Taxon": "Spanish", "Segments": [5, -1, 0, 29, 20, 28]},
  {"Taxon": "Italian", "Segments": [-1, -1, 32, 34, 20, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 0, 37, 19, 30]},
  {"Taxon": "Portuguese", "Segments": [-1, -1, 32, 29, 19, 30]},
  {"Taxon": "Catalan", "Segments": [-1, -1, 0, 34, 20, 4]},
  {"Taxon": "Walloon", "Segments": [12, -1, 32, -1, 47, -1]},
  {"Taxon": "Friulian", "Segments": [12, -1, 28, 34, 20, 0]},
  {"Taxon": "Romanian", "Segments": [12, -1, 28, 29, 20, 4]}
]},
{"Name": "Grass-Gramen", "Data": [
  {"Taxon": "Latin", "Segments": [1, 34, 52, 27, 0, 13]},
  {"Taxon": "French", "Segments": [1, 37, 28, 27, 32, 13]},
  {"Taxon": "Spanish", "Segments": [1, 29, 28, 27, 28, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [1, 29, 43, 27, 30, -1]},
  {"Taxon": "Portuguese", "Segments": [1, 29, 30, 27, 30, -1]},
  {"Taxon": "Catalan", "Segments": [1, 29, 28, 27, -1, -1]}
]},
{"Name": "Rope", "Data": [
  {"Taxon": "Latin", "Segments": [25, 22, 13, -1, 0, 27]},
  {"Taxon": "Italian", "Segments": [25, 15, 13, -1, 0, -1]},
  {"Taxon": "Romanian", "Segments": [25, 15, 13, 12, 0, -1]}
]},
{"Name": "Rope-Restis", "Data": [
  {"Taxon": "Latin", "Segments": [34, 0, 14, 21, 0, 27]},
  {"Taxon": "Spanish", "Segments": [29, 7, 14, 21, 28, -1]},
  {"Taxon": "Italian", "Segments": [34, 32, 14, 21, 28, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 32, 17, 44, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 0, 17, 21, 45, -1]}
]},
{"Name": "Skin", "Data": [
  {"Taxon": "French", "Segments": [50, 8, 28, -1, -1, -1, 13, -1]},
  {"Taxon": "Italian", "Segments": [50, -1, 6, 21, 0, 13, 13, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 6, 10, 7, -1, -1, 30]},
  {"Taxon": "Portuguese", "Segments": [50, -1, 6, 24, 7, -1, -1, 30]},
  {"Taxon": "Catalan", "Segments": [50, -1, 6, -1, -1, 13, 13, 4]}
]},
{"Name": "Skin-Pellis", "Data": [
  {"Taxon": "Latin", "Segments": [47, -1, 0, 33, 33, 0, 27]},
  {"Taxon": "French", "Segments": [47, -1, 6, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [47, 12, 0, -1, 33, -1, -1]},
  {"Taxon": "Italian", "Segments": [47, -1, 0, 33, 33, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 32, -1, 33, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [47, -1, 0, -1, 33, 45, -1]},
  {"Taxon": "Catalan", "Segments": [47, -1, 0, -1, 36, -1, -1]},
  {"Taxon": "Walloon", "Segments": [47, 12, 28, -1, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [47, 12, 32, -1, 33, -1, -1]},
  {"Taxon": "Romanian", "Segments": [47, 12, 0, -1, 33, 0, -1]}
]},
{"Name": "Meat", "Data": [
  {"Taxon": "Latin", "Segments": [50, 28, 34, 13, 0, 27]},
  {"Taxon": "French", "Segments": [17, 32, 37, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [50, 28, 29, 13, 0, -1]},
  {"Taxon": "Italian", "Segments": [50, 28, 34, 13, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 28, 37, 13, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 28, 29, 13, 45, -1]},
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [50, 28, 34, 13, -1, -1]},
  "Taxon": "Walloon", "Segments": [44, 73, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [65, 52, 34, -1, -1, -1]},
  "Taxon": "Romanian", "Segments": [50, 28, 29, 13, 0, -1]}
}],
{
  "Name": "Meat-Vivenda", "Data": [
    {"Taxon": "Latin", "Segments": [8, 38, 8, -1, 0, 13, 24, 28]},
    {"Taxon": "French", "Segments": [19, 12, -1, -1, 41, -1, 24, -1]},
    {"Taxon": "Spanish", "Segments": [20, 7, 20, 12, 0, 13, 24, 28]},
    {"Taxon": "Italian", "Segments": [19, 7, 19, -1, 28, 13, 24, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 7, 19, -1, 64, -1, 24, 28]},
    {"Taxon": "Portuguese", "Segments": [19, 7, 19, -1, 64, -1, 24, 30]}
  ]
},
{
  "Name": "Blood", "Data": [
    {"Taxon": "Latin", "Segments": [14, 28, 13, 74, -1, 7, 13, 0, 27]},
    {"Taxon": "French", "Segments": [14, 41, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 28, 75, 1, -1, -1, 29, 0, -1]},
    {"Taxon": "Italian", "Segments": [14, 28, 13, 1, 8, 0, -1, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 43, -1, 1, -1, 7, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 43, -1, 1, -1, 45, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 28, 75, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 76, -1, 1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 28, 75, 50, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 45, 13, 10, -1, 0, -1, -1, -1]}
  ]
},
{
  "Name": "Bone", "Data": [
    {"Taxon": "Latin", "Segments": [-1, -1, 6, 14, 14, 15, 27]},
    {"Taxon": "French", "Segments": [-1, -1, 9, -1, 14, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 8, 0, -1, 14, 6, -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]},
    {"Taxon": "Walloon", "Segments": [-1, -1, 9, -1, 17, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 8, 32, -1, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 6, -1, 14, -1, -1]}
  ]
},
{
  "Name": "FatNoun", "Data": [
    {"Taxon": "Latin", "Segments": [28, 24, 0, 47, 0, 27]},
    {"Taxon": "Italian", "Segments": [28, 24, 7, 47, 0, -1]}
  ]
},
{
  "Name": "FatNoun-Crassia", "Data": [
    {"Taxon": "French", "Segments": [1, 37, 32, 14, -1]},
    {"Taxon": "Spanish", "Segments": [1, 29, 28, 14, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 29, 28, 17, 30]},
    {"Taxon": "Portuguese", "Segments": [1, 29, 28, 17, 30]},
    {"Taxon": "Catalan", "Segments": [1, 29, 0, 17, -1]},
    {"Taxon": "Walloon", "Segments": [50, 54, 73, 77, -1]}
  ]
},
{
  "Name": "Egg", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 2, 8, 15, 27]},
    {"Taxon": "French", "Segments": [-1, 31, 25, -1, -1]},
    {"Taxon": "Spanish", "Segments": [8, 0, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [8, 9, 19, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 6, 19, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, 6, 19, 15, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [-1, 9, 8, -1, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 22, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 22, 25, -1, -1]},
  {"Taxon": "Romanian", "Segments": [-1, 6, 8, -1, -1]}
}],
{
  "Name": "Horn", "Data": [
    {"Taxon": "Latin", "Segments": [50, -1, 6, 34, 13, 22]},
    {"Taxon": "French", "Segments": [50, -1, 9, 37, 13, -1]},
    {"Taxon": "Spanish", "Segments": [50, 8, 0, 29, 13, 6]},
    {"Taxon": "Italian", "Segments": [50, -1, 9, 34, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 6, 37, 13, 15]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 6, 29, 13, 15]},
    {"Taxon": "Catalan", "Segments": [50, -1, 9, 34, 13, -1]},
    {"Taxon": "Walloon", "Segments": [50, 8, 32, -1, 13, -1]},
    {"Taxon": "Friulian", "Segments": [50, 8, 52, 34, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, -1, 6, 34, 13, -1]}
  ]
},
{
  "Name": "Tail", "Data": [
    {"Taxon": "Latin", "Segments": [50, 78, 24, 28]},
    {"Taxon": "French", "Segments": [50, 79, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, 33, 28]},
    {"Taxon": "Italian", "Segments": [50, 6, 24, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 78, 24, 30]},
    {"Taxon": "Portuguese", "Segments": [50, 78, 24, 30]},
    {"Taxon": "Catalan", "Segments": [50, 15, -1, 28]},
    {"Taxon": "Walloon", "Segments": [50, 9, 8, -1]},
    {"Taxon": "Friulian", "Segments": [50, 9, 24, 32]},
    {"Taxon": "Romanian", "Segments": [65, 40, 24, 4]}
  ]
},
{
  "Name": "Feather", "Data": [
    {"Taxon": "Latin", "Segments": [47, 33, 22, 27, 28]},
    {"Taxon": "French", "Segments": [47, 33, 23, 27, -1]},
    {"Taxon": "Spanish", "Segments": [47, 33, 15, 27, 28]},
    {"Taxon": "Italian", "Segments": [47, 12, 15, 27, 28]},
    {"Taxon": "Catalan", "Segments": [47, 33, 6, 27, 4]},
    {"Taxon": "Walloon", "Segments": [47, 33, 9, 27, -1]},
    {"Taxon": "Friulian", "Segments": [47, 33, 15, 27, 32]}
  ]
},
{
  "Name": "Feather-Penna", "Data": [
    {"Taxon": "Latin", "Segments": [47, 0, 13, 13, 28]},
    {"Taxon": "French", "Segments": [47, 32, -1, 13, -1]},
    {"Taxon": "Spanish", "Segments": [47, 0, -1, 39, 28]},
    {"Taxon": "Italian", "Segments": [47, 0, 13, 13, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 0, -1, 13, 30]},
    {"Taxon": "Portuguese", "Segments": [47, 0, -1, 13, 30]},
    {"Taxon": "Catalan", "Segments": [47, 32, -1, 39, 4]},
    {"Taxon": "Walloon", "Segments": [47, 0, -1, 13, -1]},
    {"Taxon": "Friulian", "Segments": [47, 32, -1, 13, 0]},
    {"Taxon": "Romanian", "Segments": [47, 28, -1, 13, 4]}
  ]
},
{
  "Name": "Hair", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 7, 33, 15, 14]},
    {"Taxon": "French", "Segments": [47, 8, 28, 33, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, -1, 0, 33, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, -1, 0, 33, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 0, 33, 15, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [47, -1, 45, 33, 15, -1]},
  "Taxon": "Catalan", "Segments": [47, -1, 32, 33, -1, -1]},
  "Taxon": "Friulian", "Segments": [47, -1, 26, 33, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, -1, 4, 29, -1, -1]}
}],
{
  "Name": "Hair-Capillus", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 47, 7, 33, 33, 15, 14]},
    {"Taxon": "French", "Segments": [17, 4, 19, 79, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, 20, 0, -1, 5, 6, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 47, 0, 33, 33, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, 20, 0, -1, 33, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 30, 67, 0, -1, 33, 15, -1]},
    {"Taxon": "Catalan", "Segments": [50, 4, 20, 32, -1, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, 7, 19, 12, -1, -1, 28, -1]},
    {"Taxon": "Friulian", "Segments": [65, 28, 19, 58, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 47, 7, -1, 21, 7, 28]},
    {"Taxon": "French", "Segments": [17, 4, 19, 32, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, 67, 0, -1, 57, -1, 28]},
    {"Taxon": "Italian", "Segments": [50, 28, 19, 0, 21, 21, 14, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, 20, 0, -1, 14, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [50, 30, 67, 0, -1, 14, -1, 30]},
    {"Taxon": "Catalan", "Segments": [50, 28, 47, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 52, 25, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 28, 47, -1, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head-Testa", "Data": [
    {"Taxon": "Latin", "Segments": [21, 0, 14, 21, 28]},
    {"Taxon": "French", "Segments": [21, 32, -1, 21, -1]},
    {"Taxon": "Italian", "Segments": [21, 32, 14, 21, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 32, 14, 21, 30]},
    {"Taxon": "Portuguese", "Segments": [21, 32, 17, 21, 30]},
    {"Taxon": "Catalan", "Segments": [21, 0, 14, 21, 4]},
    {"Taxon": "Walloon", "Segments": [44, 32, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 32, 14, 21, 0]},
    {"Taxon": "Romanian", "Segments": [51, 80, 14, 21, 4]}
  ]
},
{
  "Name": "Ear", "Data": [
    {"Taxon": "Latin", "Segments": [2, 34, 7, -1, 50, 33, 28]},
    {"Taxon": "French", "Segments": [6, 37, 58, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [6, 29, 0, -1, 35, -1, 28]},
    {"Taxon": "Italian", "Segments": [6, 34, 0, 50, 50, 12, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 29, 0, -1, -1, 36, 30]},
    {"Taxon": "Portuguese", "Segments": [6, 29, 59, -1, -1, 36, 30]},
    {"Taxon": "Catalan", "Segments": [15, 29, 32, -1, -1, 36, 4]},
    {"Taxon": "Walloon", "Segments": [9, 54, 55, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [6, 34, 0, -1, -1, 33, 0]},
    {"Taxon": "Romanian", "Segments": [15, 34, 0, -1, 50, -1, 0]}
  ]
},
{
  "Name": "Eye", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 6, -1, 50, 15, 33, 15, 14]},
    {"Taxon": "French", "Segments": [-1, 31, -1, 12, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 6, -1, 35, -1, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 9, 50, 50, -1, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, 6, -1, -1, -1, 36, 15, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [-1, 6, -1, -1, -1, 36, 15, -1]},
  "Taxon": "Walloon", "Segments": [-1, 22, -1, 12, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [19, 6, -1, -1, 33, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, 6, -1, 81, -1, -1, -1, -1]}
}],
{
  "Name": "Nose", "Data": [
    {"Taxon": "Latin", "Segments": [13, 52, 14, 15, 14]},
    {"Taxon": "French", "Segments": [13, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, 28, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 52, 14, 6, -1]},
    {"Taxon": "Catalan", "Segments": [13, 28, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, 0, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 52, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 28, 14, -1, -1]}
  ]
},
{
  "Name": "Nose-Nares", "Data": [
    {"Taxon": "Spanish", "Segments": [13, 28, 29, 7, 57, -1]},
    {"Taxon": "Italian", "Segments": [13, 28, 34, 7, 44, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 28, 29, 7, 14, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 30, 29, 7, 17, -1]},
    {"Taxon": "Catalan", "Segments": [13, 52, 34, 11, 14, -1]}
  ]
},
{
  "Name": "Mouth", "Data": [
    {"Taxon": "Latin", "Segments": [20, 15, 50, 50, 28]},
    {"Taxon": "French", "Segments": [20, 15, -1, 17, -1]},
    {"Taxon": "Spanish", "Segments": [20, 6, -1, 50, 28]},
    {"Taxon": "Italian", "Segments": [20, 6, 50, 50, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 6, -1, 50, 30]},
    {"Taxon": "Portuguese", "Segments": [20, 6, -1, 50, 30]},
    {"Taxon": "Catalan", "Segments": [20, 6, -1, 50, 4]},
    {"Taxon": "Walloon", "Segments": [20, 9, 50, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 9, -1, 65, 32]},
    {"Taxon": "Romanian", "Segments": [20, 15, -1, 50, 4]}
  ]
},
{
  "Name": "Mouth-Gula", "Data": [
    {"Taxon": "Latin", "Segments": [1, 15, 33, 28]},
    {"Taxon": "French", "Segments": [1, 31, 33, -1]},
    {"Taxon": "Spanish", "Segments": [1, 6, 33, 28]},
    {"Taxon": "Italian", "Segments": [1, 6, 33, 28]},
    {"Taxon": "Catalan", "Segments": [1, 6, 33, 4]},
    {"Taxon": "Walloon", "Segments": [1, 72, 12, -1]},
    {"Taxon": "Friulian", "Segments": [1, 9, 33, 0]},
    {"Taxon": "Romanian", "Segments": [1, 15, 29, 4]}
  ]
},
{
  "Name": "Tooth", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 0, 13, 21, 0, 27]},
    {"Taxon": "French", "Segments": [24, -1, 41, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 12, 0, 13, 21, 0, -1]},
    {"Taxon": "Italian", "Segments": [24, -1, 32, 13, 21, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 64, -1, 44, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 64, -1, 21, 45, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 64, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, -1, 7, 13, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 7, 13, 21, 0, -1]}
  ]
},
{
  "Name": "Fingernail", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [15, 13, 1, -1, 15, 33, 28]},
  "Taxon": "French", "Segments": [60, -1, 1, -1, -1, 33, -1]},
  "Taxon": "Spanish", "Segments": [15, 39, -1, -1, -1, -1, 28]},
  "Taxon": "Italian", "Segments": [15, 13, 1, 12, -1, -1, 28]},
  "Taxon": "PortugueseBrazil", "Segments": [15, 39, -1, -1, -1, -1, 30]},
  "Taxon": "Portuguese", "Segments": [15, 39, -1, -1, -1, -1, 30]},
  "Taxon": "Walloon", "Segments": [60, -1, 1, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [9, 75, 1, -1, 15, 33, 32]},
  "Taxon": "Romanian", "Segments": [15, 13, 1, 12, -1, -1, 0]}
}],
{
  "Name": "Foot", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 0, -1, 24, 0, 27]},
    {"Taxon": "French", "Segments": [47, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [47, 12, 56, -1, 24, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 32, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [47, -1, 32, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [47, -1, 32, 8, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [47, -1, 38, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [47, -1, 38, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, 7, 0, -1, 48, -1, -1]}
  ]
},
{
  "Name": "Leg-Gamba", "Data": [
    {"Taxon": "Latin", "Segments": [1, 28, 27, 20, 28]},
    {"Taxon": "French", "Segments": [3, 41, -1, 20, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 20, 28]},
    {"Taxon": "Italian", "Segments": [1, 28, 27, 20, 28]},
    {"Taxon": "Catalan", "Segments": [50, 28, 27, 20, 4]},
    {"Taxon": "Walloon", "Segments": [10, 82, -1, 47, -1]},
    {"Taxon": "Friulian", "Segments": [83, 28, 27, 20, 0]},
    {"Taxon": "Romanian", "Segments": [1, 28, 27, 20, 4]}
  ]
},
{
  "Name": "Leg-Perna", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 0, 34, 13, 28]},
    {"Taxon": "Spanish", "Segments": [47, 12, 0, 29, 13, 28]},
    {"Taxon": "Italian", "Segments": [47, -1, 32, 34, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 32, 37, 13, 30]},
    {"Taxon": "Portuguese", "Segments": [47, -1, 32, 29, 13, 30]},
    {"Taxon": "Catalan", "Segments": [47, -1, 32, 34, 13, 4]}
  ]
},
{
  "Name": "Leg-Petiolus", "Data": [
    {"Taxon": "Latin", "Segments": [47, 0, -1, 21, 7, 6, 33, 15, 14]},
    {"Taxon": "Spanish", "Segments": [47, 0, -1, 57, 7, 6, 33, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 7, 21, 44, -1, 9, 33, 6, -1]},
    {"Taxon": "Friulian", "Segments": [47, 32, -1, 50, -1, 6, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, 7, -1, 44, 12, 6, 34, -1, -1]}
  ]
},
{
  "Name": "Knee-Geniculum", "Data": [
    {"Taxon": "Latin", "Segments": [1, -1, 0, 13, 7, -1, 50, 15, 33, 15, 27]},
    {"Taxon": "French", "Segments": [3, -1, 4, 13, 15, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, -1, 7, 13, 6, -1, 35, 6, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [10, -1, 7, 13, 9, 50, 50, -1, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 15, 0, -1, -1, -1, -1, -1, 36, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 8, 30, -1, -1, -1, -1, -1, 36, 15, -1]},
    {"Taxon": "Catalan", "Segments": [3, -1, 4, 13, 6, -1, -1, -1, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, -1, 7, 13, 9, -1, -1, -1, -1, -1, -1]}
  ]
}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Friulian", "Segments": [10, -1, 0, 13, 6, -1, -1, -1, 33, 7, -1]},
  "Taxon": "Romanian", "Segments": [10, -1, 0, 13, 15, 13, 81, -1, -1, -1, -1]}
}],
{
  "Name": "Hand", "Data": [
    {"Taxon": "Latin", "Segments": [27, 28, 13, 15, 27]},
    {"Taxon": "French", "Segments": [27, 64, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 52, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 63, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 63, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [27, 64, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 28, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 45, 13, 4, -1]}
  ]
},
{
  "Name": "Wing", "Data": [
    {"Taxon": "Latin", "Segments": [52, 33, 28]},
    {"Taxon": "French", "Segments": [0, 33, -1]},
    {"Taxon": "Spanish", "Segments": [28, 33, 28]},
    {"Taxon": "Italian", "Segments": [28, 33, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [28, -1, -1]},
    {"Taxon": "Catalan", "Segments": [28, 33, 4]},
    {"Taxon": "Walloon", "Segments": [0, 33, -1]},
    {"Taxon": "Friulian", "Segments": [28, 33, 0]}
  ]
},
{
  "Name": "Belly", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 0, 13, 21, 34, 0, 27]},
    {"Taxon": "French", "Segments": [19, -1, 41, -1, 21, 37, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 12, 0, 13, 21, 29, 0, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 0, 13, 21, 29, 4, -1]},
    {"Taxon": "Walloon", "Segments": [19, -1, 62, -1, 21, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, -1, 7, 13, 21, 34, 7, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 7, 13, 21, 34, 0, -1]}
  ]
},
{
  "Name": "Belly-Pantex", "Data": [
    {"Taxon": "Latin", "Segments": [47, 28, 13, 21, 7, 50, 0, 27]},
    {"Taxon": "French", "Segments": [47, 41, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 28, 13, 57, -1, -1, -1, 28]},
    {"Taxon": "Italian", "Segments": [47, 28, 13, 44, -1, -1, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 43, -1, 14, -1, -1, 30, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 43, -1, 14, -1, -1, 30, -1]},
    {"Taxon": "Catalan", "Segments": [47, 28, 39, 17, -1, -1, 4, -1]},
    {"Taxon": "Walloon", "Segments": [47, 82, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [47, 28, 13, 51, -1, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [47, 45, 13, 21, 0, 44, 0, -1]}
  ]
},
{
  "Name": "Guts", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 21, 0, 34, 52, 13, 0, 28]},
    {"Taxon": "French", "Segments": [41, -1, 21, -1, 37, 28, -1, 12, -1]},
    {"Taxon": "Spanish", "Segments": [0, 13, 21, -1, 29, 28, 39, -1, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [42, -1, 21, -1, 29, 43, 39, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [64, -1, 21, -1, 29, 30, 39, -1, 30]},
    {"Taxon": "Catalan", "Segments": [4, 13, 21, -1, 29, 28, 39, -1, 4]}
  ]
},
{
  "Name": "Neck", "Data": [
    {"Taxon": "Latin", "Segments": [50, -1, 6, 33, 33, 15, 27]},

```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [50, -1, 15, -1, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [50, 8, 0, -1, 5, 6, -1]},
  "Taxon": "Italian", "Segments": [50, -1, 6, 33, 33, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [50, -1, 9, -1, 33, 15, -1]},
  "Taxon": "Portuguese", "Segments": [50, -1, 9, -1, 33, 15, -1]},
  "Taxon": "Catalan", "Segments": [50, -1, 9, -1, 36, -1, -1]},
  "Taxon": "Friulian", "Segments": [50, 8, 32, -1, 33, -1, -1]}
}],
{
  "Name": "Back", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 34, 14, 15, 27]},
    {"Taxon": "French", "Segments": [24, -1, 6, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, -1, 9, 14, 14, 6, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 6, -1, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 9, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 8, 0, -1, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 6, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Back-Spatula", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 28, 21, 15, 33, 28]},
    {"Taxon": "French", "Segments": [0, -1, 47, 6, -1, -1, 33, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 47, 28, 33, -1, 24, 28]},
    {"Taxon": "Italian", "Segments": [-1, 14, 47, 28, 33, -1, 33, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 17, 47, 28, 24, 8, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [7, 17, 47, 28, 24, 8, -1, 30]},
    {"Taxon": "Catalan", "Segments": [4, 14, 47, 28, 36, -1, 36, 4]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 47, 28, -1, -1, 33, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 47, 28, -1, -1, 33, 32]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 47, 28, 21, -1, -1, 0]}
  ]
},
{
  "Name": "Breast", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 13, 15, 14]},
    {"Taxon": "French", "Segments": [14, 64, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 0, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 58, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 59, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [14, 7, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 28, 13, -1, -1]}
  ]
},
{
  "Name": "Breast-Pectus", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 0, 50, 21, 15, 14]},
    {"Taxon": "French", "Segments": [47, -1, 7, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, -1, 0, -1, 44, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, -1, 32, 21, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 58, -1, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, -1, 59, -1, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [47, -1, 7, -1, 21, -1, -1]},
    {"Taxon": "Friulian", "Segments": [47, -1, 32, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, 12, 0, 47, 21, -1, -1]}
  ]
},
{
  "Name": "Heart", "Data": [
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    {"Taxon": "French", "Segments": [50, -1, 31, 37, -1]},
    {"Taxon": "Italian", "Segments": [50, 8, 9, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 9, 37, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Portuguese", "Segments": [50, -1, 6, 29, -1]},
  "Taxon": "Catalan", "Segments": [50, -1, 9, 34, -1]},
  "Taxon": "Walloon", "Segments": [50, -1, 22, 37, -1]},
  "Taxon": "Friulian", "Segments": [50, -1, 22, 34, -1]}
}],
{
  "Name": "Heart-Anima", "Data": [
    {"Taxon": "Latin", "Segments": [28, 13, 7, 27, 28]},
    {"Taxon": "French", "Segments": [84, -1, -1, 27, -1]},
    {"Taxon": "Spanish", "Segments": [28, 33, -1, 27, 28]},
    {"Taxon": "Italian", "Segments": [28, 33, -1, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 8, -1, 27, 30]},
    {"Taxon": "Portuguese", "Segments": [28, 33, -1, 27, 30]},
    {"Taxon": "Walloon", "Segments": [73, -1, -1, 27, -1]},
    {"Taxon": "Friulian", "Segments": [28, 13, 7, 27, 0]},
    {"Taxon": "Romanian", "Segments": [7, 13, 7, 27, 4]}
  ]
},
{
  "Name": "Liver", "Data": [
    {"Taxon": "Latin", "Segments": [25, -1, 38, 50, 52, 21, 15, 27]},
    {"Taxon": "French", "Segments": [25, 8, 84, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, -1, 7, 85, 28, 49, 6, -1]},
    {"Taxon": "Italian", "Segments": [25, -1, 0, 1, 28, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, -1, 7, 1, 30, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [25, -1, 7, 85, 30, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [25, -1, 0, 10, 4, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [25, -1, 72, -1, -1, 21, -1, -1]},
    {"Taxon": "Friulian", "Segments": [25, -1, 7, 12, 52, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [25, -1, 7, 50, 28, 21, -1, -1]}
  ]
},
{
  "Name": "Sun", "Data": [
    {"Taxon": "Latin", "Segments": [14, 2, 33, 0, 27]},
    {"Taxon": "Spanish", "Segments": [14, 6, 33, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 9, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 9, 68, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 9, 33, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 9, 33, 9, -1]},
    {"Taxon": "Romanian", "Segments": [14, 40, 29, 0, -1]}
  ]
},
{
  "Name": "Sun-Solliculus", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 33, 7, 50, 15, 33, 15, 14]},
    {"Taxon": "French", "Segments": [14, 9, 33, 86, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 6, 34, 0, -1, -1, 33, 7, -1]}
  ]
},
{
  "Name": "Moon", "Data": [
    {"Taxon": "Latin", "Segments": [33, 22, 13, 28]},
    {"Taxon": "French", "Segments": [33, 23, 13, -1]},
    {"Taxon": "Spanish", "Segments": [33, 15, 13, 28]},
    {"Taxon": "Italian", "Segments": [33, 15, 13, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 15, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [33, 15, -1, 30]},
    {"Taxon": "Catalan", "Segments": [36, 15, 13, 4]},
    {"Taxon": "Walloon", "Segments": [33, 79, 13, -1]},
    {"Taxon": "Friulian", "Segments": [33, 15, 13, 0]},
    {"Taxon": "Romanian", "Segments": [33, 15, 13, 4]}
  ]
},
{
  "Name": "Star", "Data": [
```

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```
{
  "Taxon": "Latin", "Segments": [-1, 14, 21, -1, 26, 33, 33, 28]},
  {"Taxon": "French", "Segments": [0, -1, 21, 8, 28, -1, 33, -1]},
  {"Taxon": "Spanish", "Segments": [0, 14, 21, 29, 0, -1, 5, 28]},
  {"Taxon": "Italian", "Segments": [-1, 14, 21, -1, 0, 33, 33, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 21, 29, 0, -1, 33, 30]},
  {"Taxon": "Portuguese", "Segments": [45, 17, 21, 29, 0, -1, 33, 30]},
  {"Taxon": "Catalan", "Segments": [4, 14, 21, -1, 32, -1, 33, -1]},
  {"Taxon": "Walloon", "Segments": [-1, 14, 21, -1, 72, -1, 33, -1]},
  {"Taxon": "Friulian", "Segments": [-1, 14, 21, -1, 32, -1, 33, 0]},
  {"Taxon": "Romanian", "Segments": [-1, 14, 21, -1, 80, -1, -1, -1]}
}],
{"Name": "Water", "Data": [
  {"Taxon": "Latin", "Segments": [28, -1, 87, -1, 28]},
  {"Taxon": "French", "Segments": [6, -1, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [28, -1, 85, 8, 28]},
  {"Taxon": "Italian", "Segments": [28, 50, 50, 8, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, -1, 1, 8, 30]},
  {"Taxon": "Portuguese", "Segments": [28, -1, 1, 8, 30]},
  {"Taxon": "Catalan", "Segments": [55, -1, 85, 8, 4]},
  {"Taxon": "Walloon", "Segments": [56, -1, -1, 8, -1]},
  {"Taxon": "Friulian", "Segments": [28, -1, 1, -1, 0]},
  {"Taxon": "Romanian", "Segments": [28, -1, 47, -1, 4]}
]},
{"Name": "Rain", "Data": [
  {"Taxon": "Latin", "Segments": [47, 33, 15, -1, 8, 7, 28]},
  {"Taxon": "French", "Segments": [47, 33, 69, -1, -1, 7, -1]},
  {"Taxon": "Spanish", "Segments": [5, -1, 15, -1, 20, 12, 28]},
  {"Taxon": "Italian", "Segments": [47, 12, 6, 24, 10, -1, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [17, -1, 15, -1, 19, -1, 30]},
  {"Taxon": "Portuguese", "Segments": [17, -1, 15, -1, 19, -1, 30]},
  {"Taxon": "Catalan", "Segments": [47, 33, 15, -1, 3, -1, 4]},
  {"Taxon": "Walloon", "Segments": [47, 33, 22, -1, 37, -1, -1]},
  {"Taxon": "Friulian", "Segments": [47, 33, 6, -1, -1, 12, 0]},
  {"Taxon": "Romanian", "Segments": [47, 33, 40, -1, -1, 12, 0]}
]},
{"Name": "River", "Data": [
  {"Taxon": "Latin", "Segments": [25, 33, 22, 27, 0, 13]},
  {"Taxon": "Italian", "Segments": [25, 12, 15, 27, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [25, 33, 15, 27, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [25, 33, 15, 27, 45, -1]},
  {"Taxon": "Friulian", "Segments": [25, 33, 15, 27, -1, -1]}
]},
{"Name": "River-Rivus", "Data": [
  {"Taxon": "Latin", "Segments": [34, 38, 8, 15, 14]},
  {"Taxon": "French", "Segments": [37, 23, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [34, 7, -1, 6, -1]},
  {"Taxon": "Italian", "Segments": [34, 7, -1, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [37, 7, -1, 8, -1]},
  {"Taxon": "Portuguese", "Segments": [37, 7, -1, 15, -1]},
  {"Taxon": "Catalan", "Segments": [34, 7, -1, 8, -1]},
  {"Taxon": "Romanian", "Segments": [34, 45, -1, 8, -1]}
]},
{"Name": "River-Riparia", "Data": [
  {"Taxon": "Latin", "Segments": [34, 38, 47, -1, 52, 34, 7, 28]},
  {"Taxon": "French", "Segments": [37, 7, 19, 12, 0, 37, -1, -1]},
  {"Taxon": "Walloon", "Segments": [34, 7, 19, 38, -1, 37, -1, -1]}
]}
```

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```
}},
{"Name": "Lake", "Data": [
  {"Taxon": "Latin", "Segments": [33, 28, 50, 15, 27]},
  {"Taxon": "French", "Segments": [33, 28, 50, -1, -1]},
  {"Taxon": "Spanish", "Segments": [33, 28, 1, 6, -1]},
  {"Taxon": "Italian", "Segments": [33, 28, 1, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [33, 28, 1, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [33, 28, 85, 15, -1]},
  {"Taxon": "Catalan", "Segments": [36, 28, 50, -1, -1]},
  {"Taxon": "Walloon", "Segments": [33, 28, 50, -1, -1]},
  {"Taxon": "Friulian", "Segments": [33, 52, 21, -1, -1]},
  {"Taxon": "Romanian", "Segments": [33, 28, 50, -1, -1]}
]},
{"Name": "Sea", "Data": [
  {"Taxon": "Latin", "Segments": [27, 28, 34, 0]},
  {"Taxon": "French", "Segments": [27, 32, 37, -1]},
  {"Taxon": "Spanish", "Segments": [27, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [27, 28, 34, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [27, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [27, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [27, 28, 34, -1]},
  {"Taxon": "Walloon", "Segments": [27, 0, 37, -1]},
  {"Taxon": "Friulian", "Segments": [27, 52, 34, -1]},
  {"Taxon": "Romanian", "Segments": [27, 28, 34, 0]}
]},
{"Name": "Salt", "Data": [
  {"Taxon": "Latin", "Segments": [14, 52, 33, 0, 27]},
  {"Taxon": "French", "Segments": [14, 32, 33, -1, -1]},
  {"Taxon": "Spanish", "Segments": [14, 28, 33, -1, -1]},
  {"Taxon": "Italian", "Segments": [14, 28, 33, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 28, 8, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 28, 33, -1, -1]},
  {"Taxon": "Catalan", "Segments": [14, 28, 33, -1, -1]},
  {"Taxon": "Walloon", "Segments": [14, 0, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [14, 52, 33, -1, -1]},
  {"Taxon": "Romanian", "Segments": [14, 28, 34, 0, -1]}
]},
{"Name": "Stone", "Data": [
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  {"Taxon": "Italian", "Segments": [14, 28, 14, 14, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 58, -1, 17, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 59, -1, 17, 15, -1]}
]},
{"Name": "Stone-Petra", "Data": [
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  {"Taxon": "French", "Segments": [47, 12, 0, -1, 37, -1]},
  {"Taxon": "Spanish", "Segments": [47, 12, 0, 49, 29, 28]},
  {"Taxon": "Italian", "Segments": [47, 12, 26, 21, 34, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 0, 24, 29, 30]},
  {"Taxon": "Portuguese", "Segments": [47, -1, 32, 49, 29, 30]},
  {"Taxon": "Catalan", "Segments": [47, -1, 0, 49, 29, 4]},
  {"Taxon": "Walloon", "Segments": [47, -1, 38, -1, 37, -1]},
  {"Taxon": "Friulian", "Segments": [47, 12, 26, -1, 34, 0]},
  {"Taxon": "Romanian", "Segments": [47, 12, 28, 21, 29, 4]}
]},
{"Name": "Stone-Lapidem", "Data": [
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```
{
  "Taxon": "Latin", "Segments": [33, 28, 47, 7, 24, 0, 27]},
  {"Taxon": "Spanish", "Segments": [33, 28, 15, -1, 24, 0, -1]},
  {"Taxon": "Italian", "Segments": [33, 28, 47, 7, 24, 0, -1]}
}],
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  {"Taxon": "Spanish", "Segments": [-1, 28, 29, 0, 13, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [-1, 28, 29, 58, -1, 30]},
  {"Taxon": "Portuguese", "Segments": [-1, 30, 29, 59, -1, 30]},
  {"Taxon": "Catalan", "Segments": [-1, 4, 29, 0, 13, 4]},
  {"Taxon": "Romanian", "Segments": [-1, 28, 34, 7, 13, 4]}
]},
{"Name": "Sand-Sabulum", "Data": [
  {"Taxon": "Latin", "Segments": [14, 28, 20, 15, 33, 15, 27]},
  {"Taxon": "French", "Segments": [14, 28, 20, -1, 33, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 55, 67, -1, 29, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 55, 67, -1, 29, 15, -1]},
  {"Taxon": "Catalan", "Segments": [14, 6, -1, -1, 34, 4, -1]},
  {"Taxon": "Walloon", "Segments": [14, 2, 19, -1, 12, 60, -1]},
  {"Taxon": "Friulian", "Segments": [14, 28, 19, 28, 33, 9, 13]}
]},
{"Name": "Sand-Sabula", "Data": [
  {"Taxon": "Latin", "Segments": [14, 28, -1, 20, 15, 33, 28]},
  {"Taxon": "Italian", "Segments": [14, 28, 20, 20, -1, 12, 28]}
]},
{"Name": "Dust", "Data": [
  {"Taxon": "Latin", "Segments": [47, 15, 33, 8, 0, 34, 0, 27]},
  {"Taxon": "French", "Segments": [47, 15, 24, -1, -1, 37, -1, -1]},
  {"Taxon": "Italian", "Segments": [47, 6, 33, 19, 0, 34, 0, -1]},
  {"Taxon": "Friulian", "Segments": [47, 9, 33, 19, 28, 34, -1, -1]},
  {"Taxon": "Romanian", "Segments": [47, 15, 33, 20, 0, 34, 0, -1]}
]},
{"Name": "Dust-Pulwus", "Data": [
  {"Taxon": "Latin", "Segments": [47, 15, 33, 8, 15, 14]},
  {"Taxon": "Spanish", "Segments": [47, 6, 33, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [47, 9, -1, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [47, 9, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [47, 6, 33, -1, -1, 14]}
]},
{"Name": "Earth", "Data": [
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  {"Taxon": "French", "Segments": [21, -1, 0, -1, 37, -1]},
  {"Taxon": "Spanish", "Segments": [21, 12, 0, -1, 34, 28]},
  {"Taxon": "Italian", "Segments": [21, -1, 32, 34, 34, 28]},
  {"Taxon": "PortugueseBrazil", "Segments": [21, -1, 0, -1, 37, 30]},
  {"Taxon": "Portuguese", "Segments": [21, -1, 32, -1, 37, 30]},
  {"Taxon": "Catalan", "Segments": [21, -1, 32, -1, 34, 4]},
  {"Taxon": "Walloon", "Segments": [21, -1, 56, -1, 37, -1]},
  {"Taxon": "Friulian", "Segments": [21, 12, 32, -1, 34, 0]},
  {"Taxon": "Romanian", "Segments": [51, -1, 28, -1, 34, 4]}
]},
{"Name": "Cloud", "Data": [
  {"Taxon": "Latin", "Segments": [13, 22, 20, 26, 14]},
  {"Taxon": "French", "Segments": [13, 23, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [13, 15, 20, 0, -1]},
  {"Taxon": "Italian", "Segments": [13, 15, 20, 0, -1]},
  {"Taxon": "Romanian", "Segments": [13, 15, 20, 0, -1]}
]}
```


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```
{
  "Taxon": "PortugueseBrazil", "Segments": [13, 15, 19, 46, -1]},
  "Taxon": "Portuguese", "Segments": [13, 15, 19, 53, -1]}
}],
{
  "Name": "Cloud-Nubilus", "Data": [
    {"Taxon": "Latin", "Segments": [13, 22, 20, 7, 33, 15, 14]},
    {"Taxon": "Spanish", "Segments": [13, 15, 20, -1, 33, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 15, 19, 6, 33, 28, -1]},
    {"Taxon": "Catalan", "Segments": [13, 15, 19, 6, 33, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 22, -1, -1, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 6, -1, -1, 34, -1, -1]}
  ]
},
{
  "Name": "Fog", "Data": [
    {"Taxon": "Latin", "Segments": [50, 52, 33, 38, 1, 7, 13, 0, 27]},
    {"Taxon": "Spanish", "Segments": [50, 28, 33, 7, -1, -1, 13, 28, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 33, 7, 10, 7, 13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, 33, 7, 3, 46, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 30, 33, 7, 3, 53, -1, -1, -1]}
  ]
},
{
  "Name": "Fog-Nebula", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 0, -1, 20, 15, 33, 28]},
    {"Taxon": "French", "Segments": [13, 12, 9, -1, -1, -1, 33, 23]},
    {"Taxon": "Spanish", "Segments": [13, 12, 0, -1, 20, -1, 33, 28]},
    {"Taxon": "Italian", "Segments": [13, -1, 0, 20, 20, -1, 12, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 32, -1, 19, 8, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 32, -1, 19, 8, -1, 30]},
    {"Taxon": "Catalan", "Segments": [13, -1, 0, -1, -1, 8, 33, 4]},
    {"Taxon": "Romanian", "Segments": [13, 0, 1, 15, 34, 4, -1, -1]}
  ]
},
{
  "Name": "Fog-Tenebrae", "Data": [
    {"Taxon": "Latin", "Segments": [21, 0, 13, 26, 20, 34, 55]},
    {"Taxon": "Italian", "Segments": [21, 56, 13, 0, 20, 34, 0]}
  ]
},
{
  "Name": "Fog-Tenebras", "Data": [
    {"Taxon": "Latin", "Segments": [21, -1, 0, 13, -1, 26, 20, 34, 52, 14]},
    {"Taxon": "French", "Segments": [21, -1, 0, 13, -1, 32, 20, 37, -1, -1]},
    {"Taxon": "Spanish", "Segments": [21, -1, 7, 13, 12, 0, 20, 33, 28, 14]},
    {"Taxon": "Italian", "Segments": [21, -1, 56, 13, -1, 0, 20, 34, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 29, -1, -1, -1, 32, 19, -1, 30, 14]},
    {"Taxon": "Portuguese", "Segments": [21, 29, -1, -1, -1, 32, 19, -1, 30, 17]},
    {"Taxon": "Catalan", "Segments": [21, -1, 4, 13, -1, 0, 20, 29, 4, 14]}
  ]
},
{
  "Name": "Fog-Fumata", "Data": [
    {"Taxon": "Latin", "Segments": [25, 22, 27, 52, 21, 28]},
    {"Taxon": "French", "Segments": [25, 23, 27, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 15, 27, 28, 21, 28]},
    {"Taxon": "Italian", "Segments": [25, 15, 27, 52, 21, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 15, 27, 28, 14, 30]},
    {"Taxon": "Portuguese", "Segments": [25, 15, 27, 28, 14, 30]},
    {"Taxon": "Friulian", "Segments": [25, 15, 27, 28, 21, 0]}
  ]
},
{
  "Name": "Fog-Caecia", "Data": [
    {"Taxon": "Latin", "Segments": [50, 55, 50, 7, 28]},
    {"Taxon": "Romanian", "Segments": [44, 80, 44, -1, 4]}
  ]
},
{
  "Name": "Sky", "Data": [
    {"Taxon": "Latin", "Segments": [50, -1, 55, 33, 15, 27]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [14, 12, 32, 33, -1, -1]},
  "Taxon": "Spanish", "Segments": [57, 12, 0, 33, 6, -1]},
  "Taxon": "Italian", "Segments": [44, -1, 32, 33, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [14, -1, 32, 8, -1, -1]},
  "Taxon": "Portuguese", "Segments": [14, -1, 32, 8, -1, -1]},
  "Taxon": "Catalan", "Segments": [14, -1, 32, 33, -1, -1]},
  "Taxon": "Walloon", "Segments": [14, -1, 38, 37, -1, -1]},
  "Taxon": "Friulian", "Segments": [44, -1, 38, 33, -1, -1]},
  "Taxon": "Romanian", "Segments": [44, -1, 0, 29, -1, -1]}
}],
{
  "Name": "Wind", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 0, 13, 21, 15, 27]},
    {"Taxon": "French", "Segments": [19, -1, 41, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 12, 0, 13, 21, 6, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 32, 13, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 64, -1, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, 64, -1, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 0, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, -1, 64, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, -1, 7, 13, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 45, 13, 21, -1, -1]}
  ]
},
{
  "Name": "Snow", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 7, 8, 0, 27]},
    {"Taxon": "Spanish", "Segments": [13, 12, 0, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [13, -1, 0, 19, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 32, 19, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 32, 19, 45, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 0, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, -1, 38, 25, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, -1, 26, 25, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, -1, 80, -1, -1, -1]}
  ]
},
{
  "Name": "Ice", "Data": [
    {"Taxon": "Latin", "Segments": [1, 0, 33, 22]},
    {"Taxon": "French", "Segments": [3, 32, 33, -1]},
    {"Taxon": "Spanish", "Segments": [5, 0, 33, 6]},
    {"Taxon": "Italian", "Segments": [10, 32, 33, 6]},
    {"Taxon": "Catalan", "Segments": [3, 32, 68, -1]},
    {"Taxon": "Romanian", "Segments": [10, 0, 34, -1]}
  ]
},
{
  "Name": "Ice-Glaciers", "Data": [
    {"Taxon": "French", "Segments": [1, 33, 28, -1, 14, -1]},
    {"Taxon": "Italian", "Segments": [1, 12, 28, 21, 44, 28]},
    {"Taxon": "Catalan", "Segments": [1, 33, 28, -1, 14, -1]},
    {"Taxon": "Walloon", "Segments": [1, 33, 32, -1, 14, -1]},
    {"Taxon": "Friulian", "Segments": [1, 33, 28, -1, 44, 0]},
    {"Taxon": "Romanian", "Segments": [1, -1, 80, -1, 51, 4]}
  ]
},
{
  "Name": "Smoke", "Data": [
    {"Taxon": "Latin", "Segments": [25, 22, 27, 15, 14]},
    {"Taxon": "Spanish", "Segments": [-1, 15, 27, 6, -1]},
    {"Taxon": "Italian", "Segments": [25, 15, 27, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 15, 27, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [25, 15, 27, 15, -1]},
    {"Taxon": "Catalan", "Segments": [25, 15, 27, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Friulian", "Segments": [25, 15, 27, -1, -1]},
  "Taxon": "Romanian", "Segments": [25, 15, 27, -1, -1]}
}],
{
  "Name": "Fire-Focus", "Data": [
    {"Taxon": "Latin", "Segments": [25, -1, 6, 50, 15, 27]},
    {"Taxon": "French", "Segments": [25, -1, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 8, 0, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [25, 8, 9, 50, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, -1, 6, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [25, -1, 6, 85, 15, -1]},
    {"Taxon": "Catalan", "Segments": [25, -1, 9, 50, -1, -1]},
    {"Taxon": "Walloon", "Segments": [25, -1, 72, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [25, -1, 22, 50, -1, -1]},
    {"Taxon": "Romanian", "Segments": [25, -1, 6, 50, -1, -1]}
  ]
},
{
  "Name": "Ash", "Data": [
    {"Taxon": "Latin", "Segments": [50, 7, 13, 0, -1, 34, 0, 27]},
    {"Taxon": "French", "Segments": [14, 41, -1, -1, 24, 37, -1, -1]},
    {"Taxon": "Italian", "Segments": [44, 0, 13, 0, -1, 34, 0, -1]},
    {"Taxon": "Catalan", "Segments": [14, 32, 13, -1, 24, 34, 4, -1]},
    {"Taxon": "Walloon", "Segments": [14, 88, -1, -1, 24, -1, -1, -1]}
  ]
},
{
  "Name": "Ash-Cinisia", "Data": [
    {"Taxon": "Spanish", "Segments": [57, 0, 13, 7, 57, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 42, -1, -1, 48, 30]},
    {"Taxon": "Portuguese", "Segments": [14, 42, -1, -1, 48, 30]},
    {"Taxon": "Friulian", "Segments": [44, 7, 13, 7, 48, 32]},
    {"Taxon": "Romanian", "Segments": [44, 0, 13, 15, 17, 4]}
  ]
},
{
  "Name": "Road", "Data": [
    {"Taxon": "Latin", "Segments": [8, 7, 28]},
    {"Taxon": "French", "Segments": [19, 8, 28]},
    {"Taxon": "Spanish", "Segments": [20, 7, 28]},
    {"Taxon": "Italian", "Segments": [19, 7, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 7, 30]},
    {"Taxon": "Portuguese", "Segments": [19, 7, 30]},
    {"Taxon": "Catalan", "Segments": [20, 7, 4]}
  ]
},
{
  "Name": "Road-Strata", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 21, 34, 52, 21, 28]},
    {"Taxon": "Spanish", "Segments": [0, 14, 21, 29, 28, 24, 28]},
    {"Taxon": "Italian", "Segments": [-1, 14, 21, 34, 28, 24, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 21, 29, 28, 24, 30]},
    {"Taxon": "Portuguese", "Segments": [7, 17, 21, 29, 28, 49, 30]}
  ]
},
{
  "Name": "Road-Camminus", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 27, 27, 38, 13, 15, 27]},
    {"Taxon": "French", "Segments": [17, 4, -1, 27, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, -1, 27, 7, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 27, 27, 7, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, -1, 27, 42, 39, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 30, -1, 27, 7, 39, 15, -1]},
    {"Taxon": "Catalan", "Segments": [50, 4, -1, 27, 7, -1, -1, -1]}
  ]
},
{
  "Name": "Mountain", "Data": [
    {"Taxon": "Latin", "Segments": [27, 6, 13, 21, 0, 27]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [27, 89, -1, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [27, 6, 13, 21, 0, -1]},
  "Taxon": "Italian", "Segments": [27, 6, 13, 21, 0, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [27, 60, -1, 44, 7, -1]},
  "Taxon": "Portuguese", "Segments": [27, 60, -1, 21, 45, -1]},
  "Taxon": "Catalan", "Segments": [27, 15, 13, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [27, 9, 13, 21, -1, -1]},
  "Taxon": "Romanian", "Segments": [27, 15, 13, 21, 32, -1]}
}],
{
  "Name": "Mountain-Montanea", "Data": [
    {"Taxon": "Latin", "Segments": [27, 6, 13, 21, 52, -1, 13, 0, 28]},
    {"Taxon": "French", "Segments": [27, 60, -1, 21, 28, -1, 39, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 6, 13, 21, 28, -1, 39, -1, 28]},
    {"Taxon": "Italian", "Segments": [27, 6, 13, 21, 28, 39, -1, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 60, -1, 21, 43, -1, 39, -1, 30]},
    {"Taxon": "Portuguese", "Segments": [27, 60, -1, 21, 30, -1, 39, -1, 30]},
    {"Taxon": "Catalan", "Segments": [27, 15, 13, 21, 28, -1, 39, -1, 4]},
    {"Taxon": "Walloon", "Segments": [27, 60, -1, 21, 28, -1, 39, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 9, 13, 21, 28, -1, 39, 0, -1]}
  ]
},
{
  "Name": "Night", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 6, 65, 21, 0, 27]},
    {"Taxon": "French", "Segments": [13, 69, 7, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, -1, 6, -1, 44, 0, -1]},
    {"Taxon": "Italian", "Segments": [13, -1, 9, 21, 21, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 18, -1, 21, 45, -1]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 18, -1, 21, 45, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 7, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, -1, 23, -1, 21, -1, -1]},
    {"Taxon": "Friulian", "Segments": [39, -1, 9, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, -1, 40, 47, 21, 0, -1]}
  ]
},
{
  "Name": "Day", "Data": [
    {"Taxon": "Latin", "Segments": [24, 7, 26, 14]},
    {"Taxon": "Spanish", "Segments": [24, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 7, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 7, 30, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 7, 30, -1]},
    {"Taxon": "Catalan", "Segments": [24, 7, 4, -1]},
    {"Taxon": "Walloon", "Segments": [10, -1, 22, -1]},
    {"Taxon": "Friulian", "Segments": [24, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 7, -1, -1]}
  ]
},
{
  "Name": "Day-Diurnus", "Data": [
    {"Taxon": "Latin", "Segments": [24, 7, 15, 34, 13, 15, 27]},
    {"Taxon": "French", "Segments": [3, -1, 15, 37, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 12, 15, 29, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [10, -1, 6, 34, 13, 6, -1]},
    {"Taxon": "Catalan", "Segments": [3, -1, 6, 29, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, -1, 22, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Day-Diurna", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [3, 9, 37, 13, 28]},
    {"Taxon": "Portuguese", "Segments": [3, 9, 37, 13, 28]}
  ]
},
{
  "Name": "Day-Diurnata", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [24, 7, 15, 34, 13, 52, 21, 28]},
  {"Taxon": "French", "Segments": [3, -1, 15, 37, 13, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [35, -1, 6, 29, 13, 28, 24, 28]},
  {"Taxon": "Italian", "Segments": [10, -1, 6, 34, 13, 28, 21, 28]},
  {"Taxon": "Friulian", "Segments": [71, -1, 6, 34, 13, 28, 24, 0]}
}],
{
  "Name": "Year", "Data": [
    {"Taxon": "Latin", "Segments": [28, 13, 13, 15, 27]},
    {"Taxon": "French", "Segments": [41, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [28, -1, 39, 6, -1]},
    {"Taxon": "Italian", "Segments": [28, 13, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 13, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [30, -1, 13, 15, -1]},
    {"Taxon": "Catalan", "Segments": [28, -1, 39, -1, -1]},
    {"Taxon": "Walloon", "Segments": [41, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [28, -1, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [28, 13, -1, -1, -1]}
  ]
},
{
  "Name": "Name-Nomen", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 27, 0, 13]},
    {"Taxon": "French", "Segments": [13, 89, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [13, 2, 27, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 6, 27, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 6, 27, 45, -1]},
    {"Taxon": "Catalan", "Segments": [13, 9, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, 60, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 9, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, 27, 0, -1]}
  ]
},
{
  "Name": "Name-Nominem", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 27, 7, 13, -1, 0, 27]},
    {"Taxon": "Spanish", "Segments": [13, 6, 27, -1, 20, 29, 0, -1]}
  ]
},
{
  "Name": "Tongue", "Data": [
    {"Taxon": "Latin", "Segments": [33, 7, 13, 74, -1, 28]},
    {"Taxon": "French", "Segments": [33, 41, -1, 1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 0, 75, 1, 8, 28]},
    {"Taxon": "Italian", "Segments": [33, 7, 13, 1, 8, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 42, -1, 1, 8, 30]},
    {"Taxon": "Portuguese", "Segments": [33, 42, -1, 1, 8, 30]},
    {"Taxon": "Walloon", "Segments": [33, 90, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 32, 13, 1, -1, 32]},
    {"Taxon": "Romanian", "Segments": [33, 7, 27, 20, -1, 4]}
  ]
},
{
  "Name": "ToDrink", "Data": [
    {"Taxon": "Latin", "Segments": [20, -1, 7, 20, 0, 34, 0]},
    {"Taxon": "French", "Segments": [20, 8, 84, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [20, -1, 0, 20, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [20, -1, 0, -1, -1, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, -1, 0, 20, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [20, -1, 45, 67, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 32, 8, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [20, 72, -1, -1, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, -1, 0, 19, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, -1, 80, -1, -1, -1, -1]}
  ]
},
]
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Name": "ToEat", "Data": [
    { "Taxon": "Latin", "Segments": [50, 6, 27, 0, 24, 0, 34, 0] },
    { "Taxon": "Spanish", "Segments": [50, 6, 27, 0, -1, -1, 29, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [50, 6, 27, 0, -1, -1, -1, -1] },
    { "Taxon": "Portuguese", "Segments": [50, 15, 27, -1, -1, 0, 29, -1] }
  ]
},
{
  "Name": "ToEat-Manducare", "Data": [
    { "Taxon": "Latin", "Segments": [27, 28, 13, 24, 15, 50, 52, 34, 0] },
    { "Taxon": "French", "Segments": [27, 41, -1, 3, -1, -1, 0, -1, -1] },
    { "Taxon": "Spanish", "Segments": [27, 28, 13, 24, 15, 50, 28, 29, -1] },
    { "Taxon": "Italian", "Segments": [27, 28, 13, 10, -1, -1, 28, 29, 0] },
    { "Taxon": "PortugueseBrazil", "Segments": [27, 43, -1, 3, -1, -1, 28, 37, -1] },
    { "Taxon": "Portuguese", "Segments": [27, 43, -1, 3, -1, -1, 28, 29, -1] },
    { "Taxon": "Catalan", "Segments": [27, 4, 39, 3, -1, -1, 28, -1, -1] },
    { "Taxon": "Walloon", "Segments": [27, 28, 39, -1, -1, -1, 38, -1, -1] },
    { "Taxon": "Friulian", "Segments": [27, 28, 75, 83, -1, -1, 52, -1, -1] },
    { "Taxon": "Romanian", "Segments": [27, 45, 13, -1, -1, 50, 28, -1, -1] }
  ]
},
{
  "Name": "ToBite", "Data": [
    { "Taxon": "Latin", "Segments": [27, -1, 6, 34, 24, 26, 34, 0] },
    { "Taxon": "French", "Segments": [27, -1, 6, 37, 24, -1, 37, -1] },
    { "Taxon": "Spanish", "Segments": [27, -1, 6, 29, 49, 0, 29, -1] },
    { "Taxon": "Italian", "Segments": [27, -1, 9, 34, 24, 0, 34, 0] },
    { "Taxon": "PortugueseBrazil", "Segments": [27, -1, 6, 37, 24, 0, 37, -1] },
    { "Taxon": "Portuguese", "Segments": [27, -1, 15, 29, 49, 0, 29, -1] },
    { "Taxon": "Friulian", "Segments": [27, 8, 28, 34, 24, 7, -1, -1] }
  ]
},
{
  "Name": "ToBite-Morsicare", "Data": [
    { "Taxon": "Latin", "Segments": [27, 6, 34, 14, 7, 50, 52, 34, 0] },
    { "Taxon": "Spanish", "Segments": [27, 6, -1, 14, -1, 50, 28, 29, -1] },
    { "Taxon": "Italian", "Segments": [27, 6, 34, 14, 7, 50, 28, 29, 0] },
    { "Taxon": "PortugueseBrazil", "Segments": [27, 15, -1, 14, 4, 1, 28, -1, -1] },
    { "Taxon": "Portuguese", "Segments": [27, 15, -1, 14, 4, 1, 28, 34, -1] },
    { "Taxon": "Catalan", "Segments": [27, 15, -1, 14, 4, 85, 28, -1, -1] },
    { "Taxon": "Romanian", "Segments": [27, 15, 34, 14, 0, 50, 28, -1, -1] }
  ]
},
{
  "Name": "ToSuck", "Data": [
    { "Taxon": "Latin", "Segments": [14, 22, 1, 0, 34, 0] },
    { "Taxon": "French", "Segments": [14, 23, 14, 0, -1, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [14, 15, 1, 28, 37, -1] },
    { "Taxon": "Portuguese", "Segments": [14, 15, 1, 28, 29, -1] },
    { "Taxon": "Walloon", "Segments": [14, 23, 14, 38, -1, -1] },
    { "Taxon": "Friulian", "Segments": [65, 15, 65, 52, -1, -1] },
    { "Taxon": "Romanian", "Segments": [14, 15, 10, 0, -1, -1] }
  ]
},
{
  "Name": "ToSpit", "Data": [
    { "Taxon": "Latin", "Segments": [50, 6, 13, 14, 47, 15, 0, 34, 0] },
    { "Taxon": "French", "Segments": [50, 89, -1, 14, 47, 23, 0, -1, -1] },
    { "Taxon": "PortugueseBrazil", "Segments": [50, 15, -1, 14, 47, 7, 37, -1, -1] },
    { "Taxon": "Portuguese", "Segments": [50, 15, -1, 17, 47, 7, 29, -1, -1] }
  ]
},
{
  "Name": "ToSpit-Exconspuere", "Data": [
    { "Taxon": "Spanish", "Segments": [0, 14, 50, 15, -1, 47, 7, 29] },
    { "Taxon": "Catalan", "Segments": [4, 14, 50, 15, -1, 47, 7, -1] },
    { "Taxon": "Romanian", "Segments": [-1, 14, 50, 15, 12, 47, 28, -1] }
  ]
},
}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Name": "ToSpit-Sputare", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 15, 21, 0, 34, 0]},
    {"Taxon": "Spanish", "Segments": [0, 14, 47, 15, 21, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 47, 15, 21, 28, 29, 0]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 47, 15, 24, 52, -1, -1]}
  ]},
{
  "Name": "ToVomit", "Data": [
    {"Taxon": "Latin", "Segments": [8, 6, 27, 0, 34, 0]},
    {"Taxon": "French", "Segments": [19, 6, 27, 7, 37, -1]},
    {"Taxon": "Italian", "Segments": [19, 9, 27, 0, 34, 0]},
    {"Taxon": "Walloon", "Segments": [19, 2, 27, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, 40, 27, 0, -1, -1]}
  ]},
{
  "Name": "ToBlow", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 25, 25, 33, 52, 34, 0]},
    {"Taxon": "French", "Segments": [14, 15, -1, 25, 33, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 25, 25, 12, 28, 34, 0]},
    {"Taxon": "Walloon", "Segments": [14, 15, -1, 25, 33, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 6, -1, 25, 33, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, -1, 25, 33, 28, -1, -1]}
  ]},
{
  "Name": "ToBreathe", "Data": [
    {"Taxon": "Latin", "Segments": [34, 0, 14, 47, 38, 34, 52, 34, 0]},
    {"Taxon": "Spanish", "Segments": [34, 0, 14, 47, 7, 29, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [34, 0, 14, 47, 7, 34, 28, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 0, 14, 47, 7, 29, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 45, 17, 47, 7, 29, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [34, 4, 14, 47, 7, 29, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [34, 0, 14, 47, 7, 34, 52, -1, -1]}
  ]},
{
  "Name": "ToLaugh", "Data": [
    {"Taxon": "Latin", "Segments": [34, 38, -1, 24, 26, 34, 0]},
    {"Taxon": "French", "Segments": [37, 7, -1, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [34, 0, -1, -1, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [34, 38, -1, 24, 0, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 7, -1, -1, -1, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 7, -1, -1, -1, 29, -1]},
    {"Taxon": "Catalan", "Segments": [34, 7, 8, -1, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [37, 38, -1, -1, -1, 37, -1]},
    {"Taxon": "Friulian", "Segments": [34, 7, -1, 24, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [29, 45, -1, 24, 0, -1, -1]}
  ]},
{
  "Name": "ToSee", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 7, 24, 26, 34, 0]},
    {"Taxon": "French", "Segments": [19, 8, 28, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [20, -1, -1, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 0, 24, 0, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, -1, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, -1, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 32, 8, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [19, -1, 38, -1, -1, 54, -1]},
    {"Taxon": "Friulian", "Segments": [19, 12, 6, 24, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 0, 24, 80, -1, -1]}
  ]},
{
  "Name": "ToHear", "Data": [
    {"Taxon": "Latin", "Segments": [78, -1, 24, 38, 34, 0]},
  ]}
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [8, -1, -1, 7, 37, -1]},
  "Taxon": "Spanish", "Segments": [6, -1, -1, 7, 29, -1]},
  "Taxon": "Italian", "Segments": [15, -1, 24, 7, 29, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [6, 8, 19, 7, 37, -1]},
  "Taxon": "Portuguese", "Segments": [6, 8, 19, 7, 29, -1]},
  "Taxon": "Catalan", "Segments": [15, -1, -1, 7, -1, -1]},
  "Taxon": "Walloon", "Segments": [60, -1, -1, 54, -1, -1]},
  "Taxon": "Friulian", "Segments": [15, 33, 24, 38, -1, -1]},
  "Taxon": "Romanian", "Segments": [78, -1, 48, 7, -1, -1]}
}],
{
  "Name": "ToKnow", "Data": [
    {"Taxon": "Latin", "Segments": [14, 50, 38, 34, 0]},
    {"Taxon": "Romanian", "Segments": [17, 21, 7, -1, -1]}
  ]
},
{
  "Name": "ToKnow-Sapere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 28, 47, -1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [14, 28, 19, 8, 28, 37, -1]},
    {"Taxon": "Spanish", "Segments": [14, 28, 20, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [14, 28, 47, -1, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 28, 20, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 30, 20, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 67, -1, 32, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 28, 19, -1, 72, 54, -1]},
    {"Taxon": "Friulian", "Segments": [14, 28, 19, -1, 26, -1, -1]}
  ]
},
{
  "Name": "ToKnow-Cognoscere", "Data": [
    {"Taxon": "Latin", "Segments": [50, 6, 1, 13, 2, 14, 50, 0, 34, 0]},
    {"Taxon": "French", "Segments": [50, 9, -1, 13, 32, -1, 21, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, -1, 13, 6, 57, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 6, -1, 13, 6, 17, 17, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 6, -1, 39, 0, 14, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 15, -1, 39, 45, 14, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 15, -1, 13, 32, 17, -1, 4, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 7, -1, 13, 9, 61, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [50, 6, -1, 39, 6, 14, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 15, -1, 13, 40, 17, 21, 0, -1, -1]}
  ]
},
{
  "Name": "ToThink", "Data": [
    {"Taxon": "Latin", "Segments": [50, -1, 2, 1, 7, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [50, 69, -1, -1, 7, 24, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 8, -1, -1, 7, 24, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, -1, 6, 10, 7, 21, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 15, 3, 7, 21, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 15, 3, 7, 21, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, -1, 15, -1, 12, 24, 28, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, -1, 15, 10, 0, 21, 28, -1, -1]}
  ]
},
{
  "Name": "ToThink-Pensare", "Data": [
    {"Taxon": "Latin", "Segments": [47, 26, 13, 14, 52, 34, 0]},
    {"Taxon": "French", "Segments": [47, 41, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 0, 13, 14, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [47, 0, 13, 14, 28, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 64, -1, 14, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 64, -1, 14, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [47, 4, 13, 14, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [47, 62, -1, 14, 0, -1, -1]},
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Friulian", "Segments": [47, 0, 75, 14, 52, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, 4, -1, 14, 28, -1, -1]}
}],
{
  "Name": "ToSmell-Sentire", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 13, 21, 38, 34, 0]},
    {"Taxon": "French", "Segments": [14, 41, -1, 21, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [14, 0, 13, 21, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 13, 21, 7, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 64, -1, 44, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 64, -1, 21, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 13, 21, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 62, -1, 21, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 7, 13, 21, 38, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 7, 27, 51, 7, -1, -1]}
  ]
},
{
  "Name": "ToSmell-Olere", "Data": [
    {"Taxon": "Latin", "Segments": [6, 33, 26, 34, 0]},
    {"Taxon": "Spanish", "Segments": [6, 33, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [6, 33, 7, 34, 0]},
    {"Taxon": "Catalan", "Segments": [15, 33, 15, 29, 28]}
  ]
},
{
  "Name": "ToSmell-Odorare", "Data": [
    {"Taxon": "Latin", "Segments": [6, 24, 2, 34, 52, 34, 0]},
    {"Taxon": "Italian", "Segments": [6, 24, 6, 34, 28, 34, 0]}
  ]
},
{
  "Name": "ToSmell-Fragrare", "Data": [
    {"Taxon": "Latin", "Segments": [25, 34, 52, 1, 34, 52, 34, 0]},
    {"Taxon": "French", "Segments": [25, 33, 32, -1, 37, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [25, 34, 28, 1, 34, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [17, -1, 58, -1, 29, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [17, -1, 59, -1, 29, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [25, 33, 4, 12, 29, 28, -1, -1]}
  ]
},
{
  "Name": "ToFear", "Data": [
    {"Taxon": "Latin", "Segments": [21, 7, 27, 26, 34, 0]},
    {"Taxon": "Spanish", "Segments": [21, 0, 27, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [21, 0, 27, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 0, 27, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 45, 27, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [21, 0, 27, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 0, 27, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [21, 0, 27, 0, -1, -1]}
  ]
},
{
  "Name": "ToFear-Tremere", "Data": [
    {"Taxon": "Latin", "Segments": [21, 34, 0, 27, -1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [50, 37, 64, -1, 24, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [21, 29, 0, 27, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [21, 34, 0, 27, -1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 29, 0, 27, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 29, 45, 27, -1, 0, 29, -1]},
    {"Taxon": "Friulian", "Segments": [21, 34, 7, 27, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToSleep", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 34, 27, 38, 34, 0]},
    {"Taxon": "French", "Segments": [24, -1, 9, 37, 27, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [24, -1, 6, 29, 27, 7, 29, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Italian", "Segments": [24, -1, 6, 34, 27, 7, 34, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [24, -1, 6, 37, 27, 7, 37, -1]},
  "Taxon": "Portuguese", "Segments": [24, -1, 15, 29, 27, 7, 29, -1]},
  "Taxon": "Catalan", "Segments": [24, -1, 15, 34, 27, 7, -1, -1]},
  "Taxon": "Walloon", "Segments": [24, 8, 28, 37, 27, 7, -1, -1]},
  "Taxon": "Friulian", "Segments": [24, -1, 15, 34, 27, 38, -1, -1]},
  "Taxon": "Romanian", "Segments": [24, -1, 6, 34, 27, 7, -1, -1]}
}],
{
  "Name": "ToLive", "Data": [
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    {"Taxon": "French", "Segments": [19, 7, 19, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [20, 7, 20, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [19, 7, 19, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 7, 19, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [19, 7, 19, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [20, 7, 8, -1, 29, 4]},
    {"Taxon": "Friulian", "Segments": [19, 7, 19, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, 7, -1, 28, -1, -1]}
  ]
},
{
  "Name": "ToDie", "Data": [
    {"Taxon": "French", "Segments": [27, 15, 37, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [27, 6, 29, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [27, 6, 34, 7, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 6, 37, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 15, 37, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [27, 15, 29, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [27, 9, 54, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 15, 34, 38, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 15, 34, 7, -1, -1]}
  ]
},
{
  "Name": "ToKill", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 0, 50, 52, 34, 0]},
    {"Taxon": "French", "Segments": [13, 8, 55, -1, 0, -1, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 4, 1, 28, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, -1, 0, 50, 28, -1, -1]}
  ]
},
{
  "Name": "ToKill-Adnecare", "Data": [
    {"Taxon": "Spanish", "Segments": [28, -1, 13, 0, 1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [28, 13, 13, 0, 1, 28, 34, 0]}
  ]
},
{
  "Name": "ToKill-Tutari", "Data": [
    {"Taxon": "Latin", "Segments": [21, 22, -1, 21, 52, 34, 7]},
    {"Taxon": "French", "Segments": [21, -1, 69, -1, 0, -1, -1]},
    {"Taxon": "Walloon", "Segments": [21, 15, 8, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToKill-Mactare", "Data": [
    {"Taxon": "Latin", "Segments": [27, 28, 50, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [27, 28, -1, 21, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, -1, 21, 28, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 28, -1, 21, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 30, -1, 21, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [27, 4, -1, 21, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 28, -1, 44, 52, -1, -1]}
  ]
},
{
  "Name": "ToKill-Occidere", "Data": [
    {"Taxon": "Latin", "Segments": [6, 50, 50, 38, 24, 0, 34, 0]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [9, 50, 14, 7, -1, -1, 37, -1]},
  "Taxon": "Italian", "Segments": [15, 21, 44, 7, 24, 0, 29, 0]},
  "Taxon": "Catalan", "Segments": [15, 50, 14, 7, -1, -1, -1, -1]},
  "Taxon": "Romanian", "Segments": [15, -1, 44, 7, 24, 0, -1, -1]}
}],
{
  "Name": "ToFight", "Data": [
    {"Taxon": "Latin", "Segments": [47, 15, 1, 13, 52, 34, 0]},
    {"Taxon": "Spanish", "Segments": [47, 15, -1, 39, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [47, 15, 39, 39, 28, 34, 0]},
    {"Taxon": "Catalan", "Segments": [47, 15, -1, 39, 28, -1, -1]}
  ]
},
{
  "Name": "ToFight-Battuere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 28, 21, 21, 15, 0, 34, 0]},
    {"Taxon": "French", "Segments": [20, 28, -1, 21, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [20, 28, -1, 21, -1, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [20, 28, 21, 21, -1, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 28, -1, 21, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 30, -1, 21, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [20, 28, -1, 21, -1, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [20, 28, -1, 21, -1, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 28, -1, 21, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 28, -1, 21, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToHunt-Captiare", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 47, 21, 7, 52, 34, 0]},
    {"Taxon": "French", "Segments": [17, 28, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, -1, 57, -1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 21, 44, -1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, -1, 14, -1, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 30, -1, 14, -1, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 4, -1, 14, -1, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, 32, -1, 14, -1, 38, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 28, -1, 44, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToHit", "Data": [
    {"Taxon": "Latin", "Segments": [47, 15, 33, 14, 52, 34, 0]},
    {"Taxon": "French", "Segments": [47, 15, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 15, -1, 35, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [47, 15, 33, 14, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 15, -1, 17, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 15, -1, 17, 28, 29, -1]},
    {"Taxon": "Friulian", "Segments": [47, 15, 33, 14, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, 15, 33, 14, 28, -1, -1]}
  ]
},
{
  "Name": "ToCut", "Data": [
    {"Taxon": "Latin", "Segments": [14, -1, 0, 50, 52, 34, 0]},
    {"Taxon": "French", "Segments": [14, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, -1, 0, 1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [14, -1, 0, 1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, 1, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 45, 85, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [14, -1, 4, 85, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, -1, 0, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToCut-Curtare", "Data": [
    {"Taxon": "Latin", "Segments": [50, 15, 34, 21, 52, 34, 0]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Spanish", "Segments": [50, 6, 29, 21, 28, 29, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [50, 6, 37, 21, 28, 37, -1]},
  "Taxon": "Portuguese", "Segments": [50, 15, 29, 21, 28, 29, -1]}
}],
{
  "Name": "ToCut-Excurtare", "Data": [
    {"Taxon": "Latin", "Segments": [0, 50, 14, 50, 15, 34, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 50, 15, 37, 21, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 50, 6, 34, 21, 28, 34, 0]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 14, 50, 15, 34, 21, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 50, 15, 34, 21, 28, -1, -1]}
  ]
},
{
  "Name": "ToCut-Taliare", "Data": [
    {"Taxon": "Latin", "Segments": [21, 52, -1, 33, 7, 52, 34, 0]},
    {"Taxon": "French", "Segments": [21, 84, 12, -1, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [21, 28, -1, 35, -1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [21, 28, -1, 36, 36, 52, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 28, -1, 36, -1, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 30, -1, 36, -1, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [21, 4, -1, 36, -1, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [21, 32, -1, -1, 12, 38, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 28, -1, -1, 12, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [21, 4, -1, -1, 12, 28, -1, -1]}
  ]
},
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    {"Taxon": "Spanish", "Segments": [24, 7, 20, 7, 24, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [24, 7, 19, 7, 24, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 7, 19, 7, 10, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 7, 19, 7, 49, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 7, 20, 7, 24, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 7, 19, 7, 24, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 7, 19, 7, 24, 0, -1, -1]}
  ]
},
{
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    {"Taxon": "Latin", "Segments": [14, 50, 7, 13, 24, 0, 34, 0]},
    {"Taxon": "French", "Segments": [14, -1, 62, -1, 24, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [17, -1, 7, 13, 24, 0, 34, 0]}
  ]
},
{
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    {"Taxon": "Spanish", "Segments": [-1, 0, 13, 24, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [25, 32, 13, 24, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 64, -1, 24, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [25, 64, -1, 24, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [25, 32, 13, 24, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [25, 62, -1, 21, -1, -1, -1]}
  ]
},
{
  "Name": "ToSplit-Partire", "Data": [
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    {"Taxon": "French", "Segments": [47, 28, 37, 21, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [47, 28, 29, 21, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [47, 28, 34, 21, 7, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 28, 37, 44, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 30, 29, 21, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [47, 4, 34, 21, 7, -1, -1]},
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Walloon", "Segments": [47, 73, 54, 21, 7, -1, -1]},
  "Taxon": "Friulian", "Segments": [47, 28, 34, 21, 38, -1, -1]}
}],
{
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    {"Taxon": "Spanish", "Segments": [14, 0, 47, 28, 29, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 47, 28, 34, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, 47, 28, 29, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 45, 47, 30, 29, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 47, 4, 29, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, 47, 28, 34, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 0, 47, 28, 34, 28, -1, -1]}
  ],
{
  "Name": "ToStab", "Data": [
    {"Taxon": "Latin", "Segments": [47, -1, 15, 13, 1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [47, 8, 62, -1, 24, -1, 37, -1]},
    {"Taxon": "Italian", "Segments": [47, -1, 15, 13, 10, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, -1, 91, -1, 3, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [47, -1, 91, -1, 3, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [47, -1, 15, 39, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [47, -1, 15, 13, 10, 0, -1, -1]}
  ],
{
  "Name": "ToStab-Iugulare", "Data": [
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    {"Taxon": "French", "Segments": [3, 23, 1, 23, 33, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [12, 15, 1, 15, 33, 52, 34, 0]}
  ],
{
  "Name": "ToScratch", "Data": [
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    {"Taxon": "Spanish", "Segments": [34, 28, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [34, 28, 24, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 28, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 30, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [34, 28, 8, -1, 29, 4]},
    {"Taxon": "Friulian", "Segments": [34, 28, 24, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [34, 28, 24, 0, -1, -1]}
  ],
{
  "Name": "ToScratch-Rasare", "Data": [
    {"Taxon": "French", "Segments": [37, 84, 48, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [34, 28, 14, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [34, 28, 14, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 28, 48, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 30, 48, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [34, 4, 48, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [34, 28, 14, 52, -1, -1]}
  ],
{
  "Name": "ToScratch-Rasicare", "Data": [
    {"Taxon": "Spanish", "Segments": [34, 28, 14, 50, 28, 29]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 28, 17, 50, 28, 37]},
    {"Taxon": "Portuguese", "Segments": [37, 30, 17, 50, 28, 29]},
    {"Taxon": "Catalan", "Segments": [34, 4, 14, 50, 28, -1]}
  ],
{
  "Name": "ToScratch-Coctiare", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [50, 6, 14, 28, 92]},
    {"Taxon": "Portuguese", "Segments": [50, 15, 14, 28, 29]}
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
}},
{"Name": "ToDig", "Data": [
  {"Taxon": "Latin", "Segments": [25, -1, 6, 24, 0, 34, 0]},
  {"Taxon": "French", "Segments": [25, 8, 7, -1, -1, 37, -1]}
]},
{"Name": "ToDig-Cavare", "Data": [
  {"Taxon": "Latin", "Segments": [50, 28, 8, 52, 34, 0]},
  {"Taxon": "French", "Segments": [17, 4, 19, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [50, 28, 20, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [50, 28, 19, 28, 34, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 30, 19, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 30, 19, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [50, 4, 20, 28, -1, -1]},
  {"Taxon": "Friulian", "Segments": [83, 28, 19, 52, -1, -1]}
]},
{"Name": "ToDig-Excavare", "Data": [
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  {"Taxon": "Spanish", "Segments": [0, 14, 50, 28, 20, 28, 29, -1, -1]},
  {"Taxon": "Italian", "Segments": [-1, 14, 50, 28, 19, 28, 34, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 17, 50, 30, 19, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [7, -1, 17, 50, 30, 19, 28, 29, -1]},
  {"Taxon": "Friulian", "Segments": [-1, -1, 48, 83, 28, 19, 52, -1, -1]}
]},
{"Name": "ToSwim", "Data": [
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  {"Taxon": "Spanish", "Segments": [13, -1, 28, 24, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [13, 8, 6, 21, 28, 29, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 28, 24, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [13, -1, 30, 49, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [13, -1, 4, 24, 28, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, -1, 28, 24, 52, -1, -1]}
]},
{"Name": "ToSwim-Navigare", "Data": [
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  {"Taxon": "French", "Segments": [13, 28, -1, -1, 3, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [13, 28, 20, 0, 1, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [13, 28, 19, 7, 1, 28, 34, 0]},
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  {"Taxon": "Portuguese", "Segments": [13, 30, 19, 45, 85, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [13, 4, 20, 4, 1, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [13, 32, -1, -1, 10, 38, -1, -1]},
  {"Taxon": "Friulian", "Segments": [13, 28, 19, 7, 1, 52, -1, -1]},
  {"Taxon": "Romanian", "Segments": [13, 28, 19, 7, 1, 28, -1, -1]}
]},
{"Name": "ToFly", "Data": [
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  {"Taxon": "French", "Segments": [19, 6, 33, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [20, 6, 33, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [19, 6, 33, 28, 29, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [19, 6, -1, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [19, 8, -1, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [20, 15, 33, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [19, 9, 33, 0, -1, -1]}
]},
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```
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  "Taxon": "Friulian", "Segments": [48, 19, 6, 33, 52, -1, -1]},
  "Taxon": "Romanian", "Segments": [48, 20, 15, 29, 28, -1, -1]}
}],
{
  "Name": "ToWalk", "Data": [
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    {"Taxon": "Italian", "Segments": [50, 28, 27, 27, 7, 13, 28, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 30, -1, 27, 7, 39, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 30, -1, 27, 7, 39, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 4, -1, 27, 7, 13, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, 7, -1, 27, 7, 13, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 28, -1, 27, 7, 13, 52, -1, -1]}
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    {"Taxon": "Romanian", "Segments": [27, 0, 34, 10, 0, -1, -1]}
  ]
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    {"Taxon": "Spanish", "Segments": [28, 13, 24, -1, -1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [28, 13, 24, -1, -1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [43, -1, 24, -1, -1, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [43, -1, 24, -1, -1, 28, 29, -1]}
  ]
},
{
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    {"Taxon": "French", "Segments": [19, 4, 13, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [20, 0, 13, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [19, 0, 13, 7, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, -1, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, -1, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [20, 4, 13, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, 7, 13, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 7, 39, 38, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, 0, 13, 7, -1, -1]}
  ]
},
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    {"Taxon": "Spanish", "Segments": [0, 50, 14, 21, 0, 13, 24, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [0, -1, 14, 21, 32, 13, 24, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 14, 21, 64, -1, 24, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 17, 21, 64, -1, 24, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 21, 0, 13, 24, -1, 29, 4]},
    {"Taxon": "Romanian", "Segments": [0, 50, 14, 21, 7, 13, 24, 0, -1, -1]}
  ]
},
{
  "Name": "ToLieAsInABed-Iacere", "Data": [
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    {"Taxon": "French", "Segments": [3, 0, -1, 48, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [5, 28, -1, 57, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [10, 28, -1, 44, 26, 29, 0]},
  ]
}
```

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```
{
  "Taxon": "PortugueseBrazil", "Segments": [3, 30, -1, 48, 0, 37, -1]},
  "Taxon": "Portuguese", "Segments": [3, 30, -1, 48, 0, 29, -1]},
  "Taxon": "Catalan", "Segments": [3, 28, 8, -1, -1, 29, 4]},
  "Taxon": "Walloon", "Segments": [10, 0, -1, -1, -1, 34, 0]},
  "Taxon": "Friulian", "Segments": [12, 0, -1, 14, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [48, 4, -1, 44, 80, -1, -1]}
]},
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  "Name": "ToSit", "Data": [
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    "Taxon": "French", "Segments": [14, 8, 28, -1, -1, 37, -1]},
    "Taxon": "Spanish", "Segments": [14, -1, 0, -1, -1, 29, -1]},
    "Taxon": "Italian", "Segments": [14, -1, 0, 24, 0, 34, 0]},
    "Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, -1, -1, 37, -1]},
    "Taxon": "Portuguese", "Segments": [14, -1, 0, -1, -1, 29, -1]},
    "Taxon": "Romanian", "Segments": [17, -1, 0, 24, 80, -1, -1]}
  ]},
{
  "Name": "ToSit-Sedentare", "Data": [
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    "Taxon": "Spanish", "Segments": [14, 0, -1, -1, 13, 21, 28, 29, -1]},
    "Taxon": "PortugueseBrazil", "Segments": [14, 64, -1, -1, -1, 21, 28, 29, -1]},
    "Taxon": "Portuguese", "Segments": [14, 64, -1, -1, -1, 21, 28, 29, -1]},
    "Taxon": "Friulian", "Segments": [14, 0, -1, -1, 13, 21, 52, -1, -1]}
  ]},
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  "Name": "ToStand", "Data": [
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    "Taxon": "French", "Segments": [32, -1, 21, -1, 37, -1]},
    "Taxon": "Spanish", "Segments": [0, 14, 21, 28, 29, -1]},
    "Taxon": "Italian", "Segments": [-1, 14, 21, 28, 34, 0]},
    "Taxon": "PortugueseBrazil", "Segments": [45, 17, 21, 28, 29, -1]},
    "Taxon": "Portuguese", "Segments": [45, 17, 21, 28, 29, -1]},
    "Taxon": "Catalan", "Segments": [4, 14, 21, 28, -1, -1]},
    "Taxon": "Walloon", "Segments": [32, 14, -1, -1, -1, -1]},
    "Taxon": "Friulian", "Segments": [-1, 14, 21, 52, -1, -1]},
    "Taxon": "Romanian", "Segments": [-1, 14, 21, 28, -1, -1]}
  ]},
{
  "Name": "ToStand-Levare", "Data": [
    "Taxon": "Latin", "Segments": [33, 0, 19, 52, 34, 0]},
    "Taxon": "French", "Segments": [33, 4, 19, 0, -1, -1]},
    "Taxon": "Spanish", "Segments": [5, 0, 20, 28, 29, -1]},
    "Taxon": "Italian", "Segments": [33, 0, 19, 28, 34, 0]},
    "Taxon": "PortugueseBrazil", "Segments": [33, 0, 19, 28, 37, -1]},
    "Taxon": "Portuguese", "Segments": [33, 45, 19, 28, 29, -1]},
    "Taxon": "Catalan", "Segments": [36, 4, 20, 28, -1, -1]},
    "Taxon": "Walloon", "Segments": [33, 4, 19, 0, -1, -1]},
    "Taxon": "Friulian", "Segments": [33, 0, 19, 52, -1, -1]},
    "Taxon": "Romanian", "Segments": [33, -1, 15, 28, -1, -1]}
  ]},
{
  "Name": "ToStand-Altiare", "Data": [
    "Taxon": "French", "Segments": [-1, 6, -1, 14, 0, -1, -1]},
    "Taxon": "Spanish", "Segments": [-1, 28, 33, 57, 28, 29, -1]},
    "Taxon": "Italian", "Segments": [-1, 28, 33, 51, 28, 34, 0]},
    "Taxon": "PortugueseBrazil", "Segments": [-1, 28, 68, 14, 28, -1, -1]},
    "Taxon": "Portuguese", "Segments": [-1, 28, 68, 14, 28, 29, -1]},
    "Taxon": "Catalan", "Segments": [-1, 4, 33, 14, 28, -1, -1]},
    "Taxon": "Walloon", "Segments": [61, 73, -1, 14, 38, -1, -1]},
    "Taxon": "Friulian", "Segments": [-1, 28, 33, 44, 52, -1, -1]}
  ]}
}
```

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```
}},
{"Name": "ToTurnIntransitive", "Data": [
  {"Taxon": "Latin", "Segments": [21, 6, 34, 13, 52, 34, 0]},
  {"Taxon": "French", "Segments": [21, 15, 37, 13, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [21, 6, 29, 13, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [21, 6, 34, 13, 28, 34, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [21, 6, 37, 13, 28, 37, -1]},
  {"Taxon": "Portuguese", "Segments": [21, 15, 29, 13, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [21, 15, 34, 13, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [21, 22, 34, 13, 0, -1, -1]},
  {"Taxon": "Friulian", "Segments": [21, 6, 34, 13, 52, -1, -1]},
  {"Taxon": "Romanian", "Segments": [21, 15, 34, 13, 28, -1, -1]}
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  {"Taxon": "French", "Segments": [3, 7, 37, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [35, 7, 29, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [10, 7, 34, 28, 29, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [3, 7, 29, 28, 29, -1]},
  {"Taxon": "Portuguese", "Segments": [3, 7, 29, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [3, 7, 29, 28, -1, -1]},
  {"Taxon": "Friulian", "Segments": [10, 7, 34, 52, -1, -1]}
]},
{"Name": "ToTurnIntransitive-AncestralClass3", "Data": [
  {"Taxon": "French", "Segments": [19, 7, 37, 0, -1, -1]},
  {"Taxon": "Spanish", "Segments": [20, 7, 29, 28, 29, -1]},
  {"Taxon": "Italian", "Segments": [19, 7, 34, 28, 29, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [19, 7, 29, 28, 29, -1]},
  {"Taxon": "Portuguese", "Segments": [3, 7, 29, 28, 29, -1]},
  {"Taxon": "Catalan", "Segments": [20, 7, 29, 28, -1, -1]},
  {"Taxon": "Walloon", "Segments": [19, 7, 37, 0, -1, -1]},
  {"Taxon": "Friulian", "Segments": [10, 7, 34, 52, -1, -1]}
]},
{"Name": "ToTurnIntransitive-Torquere", "Data": [
  {"Taxon": "Latin", "Segments": [21, 6, 34, 87, 26, 34, 0]},
  {"Taxon": "French", "Segments": [21, 9, 37, 24, -1, 37, -1]},
  {"Taxon": "Spanish", "Segments": [21, 6, 29, 57, 0, 29, -1]},
  {"Taxon": "Italian", "Segments": [21, 9, 34, 44, 0, 34, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [21, 15, 34, 14, 0, 34, -1]},
  {"Taxon": "Portuguese", "Segments": [21, 15, 34, 14, 0, 34, -1]},
  {"Taxon": "Catalan", "Segments": [21, 9, 34, 14, 4, -1, -1]},
  {"Taxon": "Romanian", "Segments": [21, 40, 34, 44, 0, -1, -1]}
]},
{"Name": "ToFall", "Data": [
  {"Taxon": "Latin", "Segments": [50, -1, 28, 24, 0, 34, 0]},
  {"Taxon": "French", "Segments": [17, 8, 28, -1, -1, 37, -1]},
  {"Taxon": "Spanish", "Segments": [50, -1, 28, -1, 0, 29, -1]},
  {"Taxon": "Italian", "Segments": [50, -1, 28, 24, 0, 29, 0]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 30, -1, 7, 29, -1]},
  {"Taxon": "Portuguese", "Segments": [50, -1, 30, -1, 7, 29, -1]},
  {"Taxon": "Catalan", "Segments": [50, -1, 28, 8, -1, 34, 4]},
  {"Taxon": "Walloon", "Segments": [44, -1, 56, -1, -1, 54, -1]},
  {"Taxon": "Friulian", "Segments": [44, 12, 28, 24, 0, -1, -1]},
  {"Taxon": "Romanian", "Segments": [50, 4, 24, 80, -1, -1, -1]}
]},
{"Name": "ToFall-Tumbare", "Data": [
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Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [21, 60, -1, 20, 0, -1]},
  "Taxon": "Spanish", "Segments": [21, 15, 27, 20, 28, 29]},
  "Taxon": "PortugueseBrazil", "Segments": [21, 60, -1, 20, 28, 37]},
  "Taxon": "Portuguese", "Segments": [21, 60, -1, 20, 28, 29]},
  "Taxon": "Catalan", "Segments": [21, 15, 27, 20, 28, -1]},
  "Taxon": "Walloon", "Segments": [21, 15, 27, -1, 0, -1]}
}],
{
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    {"Taxon": "Latin", "Segments": [24, 28, 34, 0]},
    {"Taxon": "Spanish", "Segments": [24, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [24, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 28, 34, -1]},
    {"Taxon": "Friulian", "Segments": [24, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 28, -1, -1]}
  ]
},
{
  "Name": "ToGive-Donare", "Data": [
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    {"Taxon": "French", "Segments": [24, 9, 13, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 6, 13, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [24, 6, 13, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 6, -1, 28, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 15, -1, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 15, 13, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 7, 13, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 6, 13, 52, -1, -1]}
  ]
},
{
  "Name": "ToHold", "Data": [
    {"Taxon": "Latin", "Segments": [21, 0, 13, -1, 26, 34, 0]},
    {"Taxon": "French", "Segments": [21, 4, 13, -1, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [21, 0, 13, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [21, 0, 13, -1, 0, 29, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 0, -1, -1, -1, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 0, -1, -1, -1, 29, -1]},
    {"Taxon": "Catalan", "Segments": [21, 4, 13, -1, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [21, 7, 13, -1, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 7, 13, 12, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 7, 13, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToHold-Segurar", "Data": [
    {"Taxon": "Spanish", "Segments": [14, 0, 1, 15, 29, 28, 29]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 45, 1, 15, 29, 28, 37]},
    {"Taxon": "Portuguese", "Segments": [14, 45, 85, 15, 29, 28, 29]}
  ]
},
{
  "Name": "ToSqueeze", "Data": [
    {"Taxon": "Latin", "Segments": [0, 50, 14, 47, 34, 7, 27, -1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 47, 37, 62, -1, 24, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [0, 50, 14, 47, 29, 0, 27, -1, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 47, 34, 32, 27, -1, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 17, 47, 34, 4, 27, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 17, 47, 34, 4, 27, -1, 0, 34, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 47, 29, 0, 27, -1, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [0, -1, 14, 47, 34, 7, 27, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 50, -1, 34, 0, 27, 0, -1, -1, -1]}
  ]
},
]
```


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```
{
  "Name": "ToSqueeze-Serrere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 34, 34, 0, 34, 0]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, 34, 28, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 37, 28, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 4, -1, 54, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, -1, 34, 28, -1, -1]}
  ]},
{
  "Name": "ToSqueeze-Serare", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, -1, 34, 28, 34, 0]},
    {"Taxon": "French", "Segments": [14, 0, -1, 37, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [57, 0, -1, 34, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 34, 34, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 45, -1, 37, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 45, -1, 37, 28, 29, -1]},
    {"Taxon": "Walloon", "Segments": [14, 32, -1, 54, 0, -1, -1]}
  ]},
{
  "Name": "ToSqueeze-Appectorare", "Data": [
    {"Taxon": "Latin", "Segments": [28, 47, 47, 0, 50, 21, 6, 34, 52, 34, 0]},
    {"Taxon": "Spanish", "Segments": [28, -1, 47, -1, -1, 29, 0, 21, 28, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 47, 45, -1, 29, -1, 21, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [30, -1, 47, 45, -1, 29, -1, 21, 28, 29, -1]}
  ]},
{
  "Name": "ToSqueeze-Stringere", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 21, 34, 7, 13, 1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [0, -1, 21, 37, 62, -1, 24, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 21, 29, 0, 39, -1, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 21, 34, 7, 13, 10, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, 17, 21, 34, 42, -1, 3, 7, 34, -1]},
    {"Taxon": "Portuguese", "Segments": [4, 17, 21, 34, 42, -1, 3, 7, 34, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 21, 29, 32, 39, -1, 4, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 21, 34, 7, 13, 1, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 21, 34, 32, 13, 1, 38, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 21, 34, 45, 13, 10, 0, -1, -1]}
  ]},
{
  "Name": "ToRub", "Data": [
    {"Taxon": "Latin", "Segments": [25, 34, 7, 50, 52, 34, 0]},
    {"Taxon": "French", "Segments": [25, 37, 86, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 29, 0, 1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [25, 34, 0, 1, 28, 34, 0]},
    {"Taxon": "Catalan", "Segments": [25, 29, 4, 1, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [25, 34, 18, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [25, 34, 0, -1, 28, -1, -1]},
    {"Taxon": "Romanian", "Segments": [25, 34, 0, 50, 28, -1, -1]}
  ]},
{
  "Name": "ToRub-Exfricare", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [45, 17, 25, 29, 45, 1, 28, 29]},
    {"Taxon": "Portuguese", "Segments": [45, 17, 25, 29, 45, 85, 28, 29]}
  ]},
{
  "Name": "ToRub-Frictare", "Data": [
    {"Taxon": "Latin", "Segments": [25, 34, 7, 50, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [25, 37, 6, -1, 21, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 29, 6, -1, 21, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [25, 34, 0, 21, 21, 28, 34, 0]},
    {"Taxon": "Walloon", "Segments": [25, 37, 6, -1, 21, 0, -1, -1]}
  ]},
{
  "Name": "ToRub-Frictiare", "Data": [
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```
{
  "Taxon": "Spanish", "Segments": [25, 34, 7, 14, 28, 29]},
  "Taxon": "Catalan", "Segments": [25, 29, 4, 14, 28, -1]}
}],
{
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    {"Taxon": "Latin", "Segments": [33, 28, 8, 52, 34, 0]},
    {"Taxon": "French", "Segments": [33, 28, 19, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 28, 67, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [33, 28, 19, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 30, 19, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 30, 19, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [36, 4, 20, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 28, 19, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 28, 19, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 28, -1, -1, -1, -1]}
  ]
},
{
  "Name": "ToWipe", "Data": [
    {"Taxon": "Latin", "Segments": [21, 0, 34, 1, 0, 34, 0]},
    {"Taxon": "Italian", "Segments": [21, 32, 34, 10, 0, 34, 0]}
  ]
},
{
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    {"Taxon": "Spanish", "Segments": [0, -1, 14, 21, 28, 29, 14, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 21, 4, 34, 3, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 17, 21, 0, 34, 10, 0, -1, -1]}
  ]
},
{
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    {"Taxon": "Latin", "Segments": [0, 50, 14, -1, 22, 50, -1, 52, 34, 0]},
    {"Taxon": "French", "Segments": [0, -1, 14, 69, 7, -1, 12, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [28, 17, 17, -1, 15, 1, -1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [64, -1, 17, -1, 15, 1, -1, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [64, -1, 17, -1, 15, 85, -1, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 17, -1, 15, 1, -1, 28, -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, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, -1, 14, -1, -1, 50, -1, 28, -1, -1]}
  ]
},
{
  "Name": "ToWipe-Limpidare", "Data": [
    {"Taxon": "Latin", "Segments": [33, 7, 27, 47, 7, 24, 52, 34, 0]},
    {"Taxon": "Spanish", "Segments": [33, 7, 27, 47, 12, -1, 28, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 42, -1, 47, -1, -1, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 42, -1, 47, -1, -1, 28, 29, -1]}
  ]
},
{
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    {"Taxon": "French", "Segments": [21, 7, 37, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [21, 7, 29, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [21, 7, 34, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, 7, 29, 28, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 7, 29, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [21, 7, 29, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [21, 7, 34, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 7, 34, 52, -1, -1]}
  ]
},
{
  "Name": "ToPull-Pulsare", "Data": [
    {"Taxon": "Latin", "Segments": [47, 15, 33, 14, 52, 34, 0]},
    {"Taxon": "French", "Segments": [47, 15, -1, 14, 0, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Spanish", "Segments": [47, 15, -1, 35, 28, 29, -1]},
  "Taxon": "Italian", "Segments": [47, 15, 33, 14, 28, 34, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [47, 15, -1, 17, 28, 29, -1]},
  "Taxon": "Portuguese", "Segments": [47, 15, -1, 17, 28, 29, -1]},
  "Taxon": "Walloon", "Segments": [47, 22, 14, 38, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [47, 15, 33, 14, 52, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, 15, 33, 14, 28, -1, -1]}
}],
{
  "Name": "ToPull-Trahere", "Data": [
    {"Taxon": "Latin", "Segments": [21, 34, 28, 61, 0, 34, 0]},
    {"Taxon": "French", "Segments": [21, 37, -1, -1, 32, 37, -1]},
    {"Taxon": "Italian", "Segments": [21, 34, 28, 34, -1, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 29, 28, 48, 0, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 29, 30, 48, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [21, 29, 32, 8, -1, 29, 4]},
    {"Taxon": "Friulian", "Segments": [21, 34, 55, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [21, 34, 28, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToPush", "Data": [
    {"Taxon": "Latin", "Segments": [7, 27, 47, 7, 13, 1, 0, 34, 0]},
    {"Taxon": "Italian", "Segments": [7, 27, 47, 7, 13, 10, 0, 34, 0]},
    {"Taxon": "Catalan", "Segments": [4, 27, 47, 32, 39, -1, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [45, 27, 47, 7, 13, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToThrow", "Data": [
    {"Taxon": "Latin", "Segments": [12, 28, 50, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [3, 4, -1, 21, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, -1, 44, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [10, 0, 21, 21, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 58, -1, 21, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 58, -1, 21, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [35, 7, -1, 21, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 32, -1, 21, 0, -1, -1]}
  ]
},
{
  "Name": "ToThrow-Lanceare", "Data": [
    {"Taxon": "Latin", "Segments": [33, 28, 13, 50, 0, 52, 34, 0]},
    {"Taxon": "French", "Segments": [33, 41, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 28, 13, 57, -1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [33, 28, 13, 44, -1, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 43, -1, 14, -1, 28, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 43, -1, 14, -1, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [36, 4, 13, 14, -1, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 28, 13, 65, -1, 38, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 28, 13, 44, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToThrow-Eruncare", "Data": [
    {"Taxon": "Latin", "Segments": [26, -1, 34, 15, 13, 50, 52, 34, 0]},
    {"Taxon": "Spanish", "Segments": [28, -1, 34, 28, 13, 50, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [28, 34, 34, 6, 13, 44, 28, 34, 0]},
    {"Taxon": "Romanian", "Segments": [28, -1, 29, 15, 75, 50, 28, -1, -1]}
  ]
},
{
  "Name": "ToTie", "Data": [
    {"Taxon": "Latin", "Segments": [33, 7, 1, 52, 34, 0]},
    {"Taxon": "French", "Segments": [33, 7, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 0, 1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [33, 0, 1, 28, 34, 0]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [36, 7, 85, 28, -1, -1]},
  "Taxon": "Walloon", "Segments": [33, 16, 38, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [33, 0, -1, 52, -1, -1]},
  "Taxon": "Romanian", "Segments": [33, 0, 1, 28, -1, -1]}
}],
{
  "Name": "ToTie-Aptare", "Data": [
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    {"Taxon": "Spanish", "Segments": [28, -1, 21, 28, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, -1, 21, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [30, -1, 21, 28, 29, -1]}
  ]
},
{
  "Name": "ToSew", "Data": [
    {"Taxon": "Latin", "Segments": [50, 2, 13, -1, 14, 15, 0, 34, 0]},
    {"Taxon": "French", "Segments": [50, 15, -1, 24, -1, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, -1, -1, 14, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 15, -1, -1, 44, -1, 7, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 15, -1, -1, 48, -1, 0, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 15, -1, -1, 48, -1, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 15, -1, -1, 48, -1, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 72, -1, -1, 48, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [50, 15, -1, -1, 48, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [65, 40, -1, -1, 14, -1, 0, -1, -1]}
  ]
},
{
  "Name": "ToCount", "Data": [
    {"Taxon": "Latin", "Segments": [50, 6, 27, 47, 15, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [50, 60, -1, -1, -1, 21, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, 13, -1, -1, 21, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 6, 13, -1, -1, 21, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 60, -1, -1, -1, 21, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 60, -1, -1, -1, 21, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 15, 27, -1, -1, 21, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 60, -1, -1, -1, 21, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [50, 6, 13, -1, -1, 21, 52, -1, -1]}
  ]
},
{
  "Name": "ToCount-Numerare", "Data": [
    {"Taxon": "Latin", "Segments": [13, 15, 27, -1, 0, 34, 52, 34, 0]},
    {"Taxon": "French", "Segments": [13, 89, -1, 20, -1, 37, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [13, 6, 19, -1, 0, 34, 28, 34, 0]},
    {"Taxon": "Catalan", "Segments": [13, 15, 27, -1, 0, 29, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 15, 27, -1, 0, 34, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, 27, -1, 28, 34, 28, -1, -1]}
  ]
},
{
  "Name": "ToSay", "Data": [
    {"Taxon": "Latin", "Segments": [24, 38, 50, 0, 34, 0]},
    {"Taxon": "French", "Segments": [24, 7, -1, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [24, 0, 57, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [24, 7, -1, -1, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 7, 48, 0, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 7, 48, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 7, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 38, -1, -1, 37, -1]},
    {"Taxon": "Friulian", "Segments": [24, 38, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 7, 44, 0, -1, -1]}
  ]
},
{
  "Name": "ToSay-Exponere", "Data": [
    {"Taxon": "Latin", "Segments": [0, 50, 14, 47, 2, 13, 0, 34, 0]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Italian", "Segments": [-1, -1, 14, 47, 6, 34, -1, 34, 0]},
  "Taxon": "Romanian", "Segments": [-1, -1, 14, 47, 15, 13, 0, -1, -1]}
}],
{
  "Name": "ToSing-AncestralClass", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 13, 21, 52, 34, 0]},
    {"Taxon": "French", "Segments": [17, 41, -1, 21, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, 13, 21, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 13, 21, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 43, -1, 21, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 43, -1, 21, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 4, 13, 21, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, 41, -1, 21, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 28, 13, 21, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 45, 13, 21, 28, -1, -1]}
  ],
{
  "Name": "ToPlay-Ludere", "Data": [
    {"Taxon": "Latin", "Segments": [33, 22, 24, 0, 34, 0]},
    {"Taxon": "Spanish", "Segments": [33, 15, 24, 7, 29, -1]}
  ],
{
  "Name": "ToPlay-Jiocare", "Data": [
    {"Taxon": "Latin", "Segments": [12, 6, -1, 50, 52, 34, 0]},
    {"Taxon": "French", "Segments": [3, -1, 8, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [35, 15, -1, 1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [10, 6, -1, 50, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 6, -1, 1, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 15, -1, 85, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [3, 15, -1, 1, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 15, 8, -1, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [10, 15, 12, -1, 52, -1, -1]},
    {"Taxon": "Romanian", "Segments": [3, 15, -1, 50, 28, -1, -1]}
  ],
{
  "Name": "ToFloat", "Data": [
    {"Taxon": "Latin", "Segments": [25, 33, 22, 50, 21, 15, 52, 34, 0]},
    {"Taxon": "French", "Segments": [25, 33, 23, 50, 21, 69, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 33, 15, 1, 21, 8, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [25, 33, 15, 21, 21, 15, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 33, 15, -1, 21, 15, 28, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [25, 33, 15, -1, 21, 15, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [25, 33, 15, 50, 21, 15, 28, -1, -1]},
    {"Taxon": "Romanian", "Segments": [25, 33, 15, 65, 21, 15, 28, -1, -1]}
  ],
{
  "Name": "ToFloat-Fluitare", "Data": [
    {"Taxon": "Latin", "Segments": [25, 33, 15, 7, 21, 52, 34, 0]},
    {"Taxon": "Italian", "Segments": [25, 33, 15, 7, 21, 28, 34, 0]}
  ],
{
  "Name": "ToFlow", "Data": [
    {"Taxon": "Latin", "Segments": [25, 33, 15, 0, 34, 0]},
    {"Taxon": "French", "Segments": [25, 33, 23, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 33, 15, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [25, 33, 15, 7, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 33, 8, 7, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [25, 33, 8, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [25, 33, 15, 7, -1, -1]}
  ],
{
  "Name": "ToFlow-Colare", "Data": [
    {"Taxon": "Latin", "Segments": [50, 2, 33, 52, 34, 0]},

```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "French", "Segments": [50, 15, 33, 0, -1, -1]},
  "Taxon": "Spanish", "Segments": [50, 6, 33, 28, 29, -1]},
  "Taxon": "Italian", "Segments": [50, 6, 33, 28, 34, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [50, 6, -1, 28, 37, -1]},
  "Taxon": "Portuguese", "Segments": [50, 15, -1, 28, 29, -1]},
  "Taxon": "Catalan", "Segments": [50, 15, 68, 28, -1, -1]},
  "Taxon": "Walloon", "Segments": [50, 9, 33, 0, -1, -1]}
}],
{
  "Name": "ToFlow-Excurrere", "Data": [
    {"Taxon": "Latin", "Segments": [0, 50, 14, 50, 15, 34, 34, 0, 34, 0]},
    {"Taxon": "Spanish", "Segments": [0, -1, 14, 50, 15, -1, 34, 7, 29, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 50, 6, 34, 34, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 17, 50, 6, -1, 37, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 17, 50, 15, -1, 54, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 50, 6, -1, 34, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 14, 50, 6, -1, 34, 38, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 50, 15, 29, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToFlow-Currere", "Data": [
    {"Taxon": "Latin", "Segments": [50, 15, 34, 34, 0, 34, 0]},
    {"Taxon": "French", "Segments": [50, 15, -1, 37, 7, 37, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, -1, 34, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 6, 34, 34, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 6, -1, 37, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 15, -1, 37, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 6, -1, 34, 4, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 9, -1, 54, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [50, 6, -1, 34, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 15, 29, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToFreeze", "Data": [
    {"Taxon": "Latin", "Segments": [1, 0, 33, 52, 34, 0]},
    {"Taxon": "French", "Segments": [3, 4, 33, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, 33, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [10, 0, 33, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [3, 45, 33, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [3, 45, 33, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [3, 4, 33, 28, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 28, 33, 0, -1, -1]}
  ]
},
{
  "Name": "ToFreeze-Glaciare", "Data": [
    {"Taxon": "Latin", "Segments": [1, 33, 28, -1, 50, 7, 52, 34, 0]},
    {"Taxon": "French", "Segments": [1, 33, 28, -1, 14, -1, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [1, 12, 28, 21, 44, 12, 28, 34, 0]},
    {"Taxon": "Catalan", "Segments": [1, 33, 4, -1, 14, -1, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 33, 28, -1, 44, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToFreeze-Inglaciare", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 1, 33, 28, 50, 7, 52, 34, 0]},
    {"Taxon": "Romanian", "Segments": [45, 13, 1, -1, 0, 51, -1, 28, -1, -1]}
  ]
},
{
  "Name": "ToSwell", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 25, 33, 52, 34, 0]},
    {"Taxon": "French", "Segments": [41, -1, 25, 33, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [7, 13, 44, -1, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [0, 13, 25, 7, 28, 34, 0]},
  ]
}
```


Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "PortugueseBrazil", "Segments": [42, -1, 17, -1, 28, 29, -1]},
  "Taxon": "Portuguese", "Segments": [42, -1, 17, -1, 28, 29, -1]},
  "Taxon": "Catalan", "Segments": [7, 27, 25, 33, 28, -1, -1]},
  "Taxon": "Walloon", "Segments": [64, -1, 25, 33, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [0, 13, 25, 33, 52, -1, -1]},
  "Taxon": "Romanian", "Segments": [15, 27, 25, 33, 28, -1, -1]}
}],
{
  "Name": "ToSwell-Conflare", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 50, -1, 6, 13, 25, 33, 52, 34, 0]},
    {"Taxon": "French", "Segments": [-1, 1, -1, 60, -1, 25, 33, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 1, -1, 6, 13, 25, 12, 28, 34, 0]},
    {"Taxon": "Walloon", "Segments": [-1, 1, -1, 60, -1, 25, 33, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 1, 33, 6, 75, 25, -1, 52, -1, -1]}
  ]
},
{
  "Name": "ToSwell-Intumescere", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 21, 15, 27, 26, 14, 50, 0, 34, 0]},
    {"Taxon": "Spanish", "Segments": [0, 13, 21, 15, 27, 0, 57, -1, 0, 29, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [42, -1, 21, 15, 27, 0, 14, -1, 0, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [42, -1, 21, 15, 27, 0, 14, -1, 0, 29, -1]}
  ]
},
{
  "Name": "ToSwell-Crescere", "Data": [
    {"Taxon": "Latin", "Segments": [50, 34, -1, 26, 14, 50, 26, 34, 0]},
    {"Taxon": "French", "Segments": [50, 37, 8, 28, -1, 21, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [50, 29, -1, 0, 57, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 34, -1, 0, 17, 17, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 29, -1, 0, 14, -1, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 29, -1, 45, 17, 14, 0, 29, -1]},
    {"Taxon": "Catalan", "Segments": [50, 29, -1, 0, -1, 17, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 29, -1, 0, 17, 21, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Cremare", "Data": [
    {"Taxon": "Latin", "Segments": [50, 34, 0, 27, 52, 34, 0]},
    {"Taxon": "French", "Segments": [50, 37, 28, 27, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, -1, 0, 27, 28, 29, -1]},
    {"Taxon": "Italian", "Segments": [50, 34, 0, 27, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 59, 27, 28, 29, 0]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 58, 27, 28, 37, 0]},
    {"Taxon": "Catalan", "Segments": [50, 34, 4, 27, 28, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flammare", "Data": [
    {"Taxon": "Latin", "Segments": [25, 33, 28, 27, 27, 52, 34, 0]},
    {"Taxon": "French", "Segments": [25, 33, 28, -1, 27, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [25, 12, 28, 27, 27, 28, 34, 0]},
    {"Taxon": "Catalan", "Segments": [25, 68, 28, -1, 27, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [25, 33, 28, -1, 27, 52, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Ardere", "Data": [
    {"Taxon": "Latin", "Segments": [28, 34, 24, 26, 34, 0]},
    {"Taxon": "French", "Segments": [28, 37, 24, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [28, 29, 24, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [28, 34, 24, 0, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 37, 24, 0, 37, -1]},
    {"Taxon": "Portuguese", "Segments": [30, 29, 24, 0, 29, -1]},
    {"Taxon": "Romanian", "Segments": [28, 29, 24, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flagrare", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [25, 33, 28, 1, 34, 52, 34, 0]},
  "Taxon": "French", "Segments": [25, 33, 28, 1, 37, 0, -1, -1]},
  "Taxon": "Spanish", "Segments": [25, 33, 28, 1, 29, 28, 29, -1]},
  "Taxon": "Italian", "Segments": [25, 33, 28, 1, 34, 28, 34, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [25, 33, 28, 1, 37, 28, 37, -1]},
  "Taxon": "Portuguese", "Segments": [25, 33, 28, 1, 29, 28, 29, -1]}
}],
{
  "Name": "ToBurn-Incendere", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 50, 0, 13, 24, -1, 0, 34, 0]},
    {"Taxon": "French", "Segments": [62, -1, 14, 41, -1, 24, 12, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 13, 57, 0, 13, 24, -1, 0, 29, -1]},
    {"Taxon": "Italian", "Segments": [7, 13, 44, 32, 13, 24, 12, 28, 34, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [42, -1, 14, 0, 13, 10, 11, 28, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [42, -1, 14, 64, -1, 24, 12, 28, 29, -1]},
    {"Taxon": "Catalan", "Segments": [4, 13, 14, 0, 13, 24, -1, -1, 29, 4]},
    {"Taxon": "Romanian", "Segments": [45, 13, 44, 7, 13, 24, 3, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Ustulare", "Data": [
    {"Taxon": "Latin", "Segments": [15, 14, 21, 15, 33, 52, 34, 0]},
    {"Taxon": "Italian", "Segments": [15, 14, 21, 6, 33, 28, 34, 0]},
    {"Taxon": "Romanian", "Segments": [15, 14, 21, 15, 34, 28, -1, -1]}
  ]
},
{
  "Name": "All", "Data": [
    {"Taxon": "Latin", "Segments": [6, 27, 13, 7, 14]},
    {"Taxon": "Italian", "Segments": [6, 39, 39, 7, -1]}
  ]
},
{
  "Name": "All-Totus", "Data": [
    {"Taxon": "Latin", "Segments": [21, 2, -1, 21, 15, 14]},
    {"Taxon": "French", "Segments": [21, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [21, 6, -1, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [21, 15, 21, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 6, -1, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 6, -1, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [21, 6, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [21, 9, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 15, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [21, 6, -1, 21, -1, -1]}
  ]
},
{
  "Name": "Many", "Data": [
    {"Taxon": "Latin", "Segments": [27, 15, 33, 21, 15, 14]},
    {"Taxon": "French", "Segments": [27, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 15, -1, 44, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 6, 33, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 91, 93, -1, 21, 15]},
    {"Taxon": "Portuguese", "Segments": [27, 91, 93, -1, 21, 15]},
    {"Taxon": "Catalan", "Segments": [27, 6, 33, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 6, 33, 65, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 15, 33, 21, -1, -1]}
  ]
},
{
  "Name": "Many-Tantus", "Data": [
    {"Taxon": "Latin", "Segments": [21, 28, 13, 21, 15, 14]},
    {"Taxon": "Spanish", "Segments": [21, 28, 13, 21, 6, -1]},
    {"Taxon": "Italian", "Segments": [21, 28, 13, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [21, 43, -1, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [21, 43, -1, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [21, 28, 13, 21, -1, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Friulian", "Segments": [21, 28, 13, 65, -1, -1]}
}],
{
  "Name": "Some", "Data": [
    {"Taxon": "French", "Segments": [6, -1, 50, 94, -1, -1]},
    {"Taxon": "Spanish", "Segments": [28, 33, 1, 15, 13, 6]},
    {"Taxon": "Italian", "Segments": [28, 33, 50, 15, 13, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 8, 1, 91, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [28, 68, 1, 91, -1, -1]},
    {"Taxon": "Catalan", "Segments": [4, 33, 1, 15, -1, -1]}
  ]
},
{
  "Name": "Few", "Data": [
    {"Taxon": "Latin", "Segments": [47, 78, 50, 15, 14]},
    {"Taxon": "French", "Segments": [47, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [47, 6, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 9, 50, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 6, 8, 50, 15]},
    {"Taxon": "Portuguese", "Segments": [47, 6, 8, 50, 15]},
    {"Taxon": "Catalan", "Segments": [47, 9, 50, -1, -1]},
    {"Taxon": "Walloon", "Segments": [47, 60, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [47, 2, 50, -1, -1]}
  ]
},
{
  "Name": "Other", "Data": [
    {"Taxon": "Latin", "Segments": [28, 33, 21, 0, 34, -1]},
    {"Taxon": "French", "Segments": [6, -1, 21, -1, 37, -1]},
    {"Taxon": "Spanish", "Segments": [6, -1, 21, -1, 29, 6]},
    {"Taxon": "Italian", "Segments": [28, 33, 21, -1, 34, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [6, 8, 21, -1, 29, 15]},
    {"Taxon": "Portuguese", "Segments": [6, 8, 21, -1, 29, 15]},
    {"Taxon": "Catalan", "Segments": [28, 33, 21, -1, 29, 4]},
    {"Taxon": "Walloon", "Segments": [60, -1, 21, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [28, 33, 21, -1, 34, 7]},
    {"Taxon": "Romanian", "Segments": [28, 33, 21, -1, -1, -1]}
  ]
},
{
  "Name": "Other-Alius", "Data": [
    {"Taxon": "Latin", "Segments": [28, 33, 7, 15, 14]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 8, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [28, 68, -1, -1, -1]}
  ]
},
{
  "Name": "Big", "Data": [
    {"Taxon": "Latin", "Segments": [27, 28, 1, 13, 15, 14]},
    {"Taxon": "Spanish", "Segments": [27, 28, -1, 39, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 28, 39, 39, 6, -1]}
  ]
},
{
  "Name": "Big-Grandem", "Data": [
    {"Taxon": "Latin", "Segments": [1, 34, 28, 13, 24, 0, 27]},
    {"Taxon": "French", "Segments": [1, 37, 41, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 29, 28, 13, 24, 0, -1]},
    {"Taxon": "Italian", "Segments": [1, 34, 28, 13, 24, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 29, 43, -1, 10, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 29, 43, -1, 24, 45, -1]},
    {"Taxon": "Catalan", "Segments": [1, 34, 28, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [1, 37, 41, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 34, 28, 13, 21, -1, -1]}
  ]
},
{
  "Name": "Big-Majjorem", "Data": [
    {"Taxon": "Latin", "Segments": [27, 55, 12, 2, 34, 0, 27]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Romanian", "Segments": [27, 28, -1, -1, -1, 29, 0]}
}],
{
  "Name": "Long-Longum", "Data": [
    {"Taxon": "Latin", "Segments": [33, 6, -1, 13, 1, 15, 14]},
    {"Taxon": "French", "Segments": [33, 89, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 6, -1, 13, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 15, -1, 13, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 60, -1, 1, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 60, -1, 1, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [36, 6, -1, 75, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 60, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 15, 13, 50, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 15, 13, 1, -1, -1, -1]}
  ]},
{
  "Name": "Long-Largum", "Data": [
    {"Taxon": "Latin", "Segments": [33, 28, 34, 1, 15, 14]},
    {"Taxon": "French", "Segments": [33, 28, 37, 3, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 28, 29, 85, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 28, 34, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 28, 37, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 28, 29, 1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [36, 28, 29, 50, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, 28, 34, 50, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 28, 34, 1, -1, -1]}
  ]},
{
  "Name": "Wide", "Data": [
    {"Taxon": "Latin", "Segments": [33, 52, 21, 15, 14]},
    {"Taxon": "French", "Segments": [33, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 28, 21, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 28, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 28, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 28, 21, 15, -1]},
    {"Taxon": "Romanian", "Segments": [33, 28, 21, -1, -1]}
  ]},
{
  "Name": "Wide-Amplum", "Data": [
    {"Taxon": "Latin", "Segments": [28, 27, 47, 33, 15, 14]},
    {"Taxon": "French", "Segments": [41, -1, 47, 33, -1, -1]},
    {"Taxon": "Spanish", "Segments": [28, 13, 44, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [28, 27, 47, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [43, -1, 17, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [43, -1, 17, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [28, 27, 47, 33, 4, -1]}
  ]},
{
  "Name": "Thick", "Data": [
    {"Taxon": "Latin", "Segments": [50, 34, 28, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [1, 37, 84, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 29, 28, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [1, 34, 28, 14, 14, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 29, 28, -1, 17, 15, -1]},
    {"Taxon": "Catalan", "Segments": [1, 29, 28, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 34, 28, 14, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 34, 28, 14, -1, -1, -1]}
  ]},
{
  "Name": "Thick-Spissum", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 7, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 47, 0, -1, -1, -1, -1]}
  ]}
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Spanish", "Segments": [0, 14, 47, 0, 14, 6, -1, -1]},
  "Taxon": "Italian", "Segments": [-1, 14, 47, 0, 14, 14, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [7, 14, 47, 32, -1, 14, 15, -1]},
  "Taxon": "Portuguese", "Segments": [7, 17, 47, 0, -1, 14, 15, -1]},
  "Taxon": "Catalan", "Segments": [4, 14, 47, 32, -1, 14, -1, -1]},
  "Taxon": "Walloon", "Segments": [-1, 14, 47, 32, -1, -1, -1, -1]}
}],
{
  "Name": "Thick-Gurdum", "Data": [
    {"Taxon": "Latin", "Segments": [1, 15, 34, 24, 15, 14]},
    {"Taxon": "Spanish", "Segments": [1, 6, 29, 24, 6, -1]}
  ]
},
{
  "Name": "Thick-Grossus", "Data": [
    {"Taxon": "Latin", "Segments": [1, 34, 6, -1, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [1, 37, 6, -1, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [1, 34, 9, -1, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 29, 6, -1, -1, 14, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 29, 6, -1, -1, 14, 15, -1]},
    {"Taxon": "Catalan", "Segments": [1, 29, 9, -1, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 34, 8, 32, 14, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 34, 6, -1, 14, -1, -1, -1]}
  ]
},
{
  "Name": "Heavy", "Data": [
    {"Taxon": "Latin", "Segments": [1, 34, 28, -1, -1, 8, 7, 14]},
    {"Taxon": "French", "Segments": [1, 37, 7, 12, 32, 25, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 29, 28, -1, -1, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [1, 34, 32, -1, -1, 19, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [1, 29, 28, -1, -1, 19, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 29, 28, -1, -1, 19, 45, -1]},
    {"Taxon": "Catalan", "Segments": [1, 29, 0, -1, -1, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [1, 34, 28, -1, -1, 19, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 34, 32, -1, -1, 19, 7, -1]},
    {"Taxon": "Romanian", "Segments": [1, 29, 0, -1, -1, 8, -1, -1]}
  ]
},
{
  "Name": "Heavy-Lurdus", "Data": [
    {"Taxon": "Latin", "Segments": [33, 15, 34, 24, 15, 14]},
    {"Taxon": "French", "Segments": [33, 15, 37, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 0, 29, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 6, 34, 24, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [33, 0, 29, 24, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [33, 0, 29, 24, 6, -1]}
  ]
},
{
  "Name": "Small", "Data": [
    {"Taxon": "Latin", "Segments": [47, 7, 21, 21, 7, 21, 15, 14]},
    {"Taxon": "French", "Segments": [47, 4, -1, 21, 7, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [47, 4, -1, 21, 7, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [47, 7, -1, 21, 7, -1, -1, -1]}
  ]
},
{
  "Name": "Small-Pittinus", "Data": [
    {"Taxon": "Latin", "Segments": [47, 7, 21, 21, 7, 13, 15, 14]},
    {"Taxon": "Spanish", "Segments": [47, 0, -1, 50, 0, 39, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 7, 21, 44, 7, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 0, -1, 50, 0, 13, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 45, -1, 50, 0, 13, 15, -1]},
    {"Taxon": "Romanian", "Segments": [47, 15, -1, 51, 7, 13, -1, -1]}
  ]
},
{
  "Name": "Small-Pitulus", "Data": [
```

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```
{
  "Taxon": "Latin", "Segments": [47, 7, -1, 21, 15, 33, 15, 14]},
  "Taxon": "Italian", "Segments": [47, 7, 50, 50, 6, 33, 6, -1]},
  "Taxon": "Friulian", "Segments": [47, 7, -1, 44, 15, 33, -1, -1]}
}],
{
  "Name": "Short", "Data": [
    {"Taxon": "Latin", "Segments": [50, 15, 34, 21, 15, 14]},
    {"Taxon": "French", "Segments": [50, 15, 37, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, 29, 21, 6, -1]},
    {"Taxon": "Italian", "Segments": [50, 6, 34, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 15, 37, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 15, 29, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [50, 15, 29, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 22, 37, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [50, 15, 34, 21, -1, -1]}
  ]
},
{
  "Name": "Short-Brevis", "Data": [
    {"Taxon": "Latin", "Segments": [20, 34, 0, 8, 7, 14]},
    {"Taxon": "French", "Segments": [20, 37, 32, 25, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 29, 0, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [20, 34, 32, 19, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 29, 32, 19, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 29, 32, 19, 45, -1]},
    {"Taxon": "Catalan", "Segments": [20, 29, 0, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 37, 0, 25, -1, -1]}
  ]
},
{
  "Name": "Narrow", "Data": [
    {"Taxon": "Latin", "Segments": [28, 13, 1, 15, 14, 21, 15, 14]},
    {"Taxon": "Spanish", "Segments": [28, 13, 1, 6, 14, 21, 6, -1]},
    {"Taxon": "Italian", "Segments": [28, 13, 1, 15, 14, 21, 6, -1]},
    {"Taxon": "Romanian", "Segments": [45, 75, 1, 15, 14, 21, -1, -1]}
  ]
},
{
  "Name": "Narrow-Strictus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 21, 34, -1, 7, -1, 50, 21, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 21, 37, 8, 28, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 21, 29, -1, 0, -1, -1, 44, 6, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 21, 34, -1, 0, -1, 21, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 21, 29, -1, 58, -1, -1, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [45, 17, 21, 29, -1, 59, -1, -1, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 21, 29, -1, 32, -1, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 21, 37, -1, 72, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 21, 34, -1, 32, -1, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 21, 34, -1, 45, 27, -1, 21, -1, -1]}
  ]
},
{
  "Name": "Thin", "Data": [
    {"Taxon": "Latin", "Segments": [27, 7, 13, 22, -1, 21, 15, 14]},
    {"Taxon": "French", "Segments": [27, 4, 13, 23, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 0, 13, 15, -1, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 7, 13, 15, -1, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 7, -1, 15, -1, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 7, -1, 15, -1, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [27, 4, 13, 15, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [27, 7, 13, 15, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 7, 13, 22, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 4, 34, 15, 13, 21, -1, -1]}
  ]
},
{
  "Name": "Thin-Delicatus", "Data": [
```


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```
{
  "Taxon": "Latin", "Segments": [24, 26, 33, 7, 50, 52, 21, 15, 14]},
  "Taxon": "French", "Segments": [24, 22, -1, -1, 3, 26, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [24, 0, 33, -1, 85, 28, 49, 6, -1]},
  "Taxon": "Italian", "Segments": [24, 0, 33, 7, 50, 28, 21, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [24, 0, 8, -1, 1, 28, 24, 15, -1]},
  "Taxon": "Portuguese", "Segments": [24, 32, 68, -1, 85, 28, 49, 15, -1]},
  "Taxon": "Catalan", "Segments": [24, 4, 33, 7, 50, 28, 21, -1, -1]}
}],
{
  "Name": "Thin-Subtilis", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 20, 21, 38, 33, 0, 27]},
    {"Taxon": "Spanish", "Segments": [14, 15, -1, 21, 7, 33, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 21, 21, 7, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 15, -1, 44, 7, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 15, -1, 44, 7, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 15, 47, 21, 7, 33, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 22, -1, 21, 7, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 15, -1, 21, 38, 33, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, 20, 51, 7, 34, 0, -1]}
  ]
},
{
  "Name": "Warm", "Data": [
    {"Taxon": "Latin", "Segments": [50, 28, 33, 7, 24, 15, 14]},
    {"Taxon": "French", "Segments": [17, 6, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 28, 33, -1, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [50, 28, 33, -1, 24, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 28, 8, -1, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 28, 33, -1, 24, 15, -1]},
    {"Taxon": "Catalan", "Segments": [50, 28, 68, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [44, 60, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 28, 33, -1, 21, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [50, 28, 33, -1, 24, -1, -1, -1]}
  ]
},
{
  "Name": "Cold", "Data": [
    {"Taxon": "Latin", "Segments": [25, 34, -1, 38, 1, 7, 24, 15, 14]},
    {"Taxon": "French", "Segments": [25, 37, 8, 28, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [25, 29, -1, 7, -1, -1, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [25, 34, -1, 0, 24, -1, 24, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [25, 29, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [25, 29, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [25, 29, -1, 32, -1, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [25, 54, 8, 32, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [25, 34, -1, 26, -1, -1, 21, -1, -1]}
  ]
},
{
  "Name": "Cold-Recens", "Data": [
    {"Taxon": "Latin", "Segments": [34, 0, 50, -1, 0, 13, 21, 0, 27]},
    {"Taxon": "Spanish", "Segments": [34, 0, 57, 12, 0, 13, 21, 0, -1]},
    {"Taxon": "Italian", "Segments": [34, 0, 44, -1, 32, 13, 21, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 0, 14, -1, 64, -1, 44, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 0, 14, -1, 64, -1, 44, 7, -1]},
    {"Taxon": "Friulian", "Segments": [34, 0, 51, -1, 7, 13, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [34, 0, 44, -1, 0, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Full", "Data": [
    {"Taxon": "Latin", "Segments": [47, 33, 26, 13, 15, 14]},
    {"Taxon": "French", "Segments": [47, 33, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 36, 0, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 12, 56, 13, 6, -1]},
  ]
}
```

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```
{
  "Taxon": "PortugueseBrazil", "Segments": [17, -1, 59, -1, 15, -1]},
  "Taxon": "Portuguese", "Segments": [17, -1, 59, -1, 15, -1]},
  "Taxon": "Catalan", "Segments": [47, 68, 32, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [47, 33, 64, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [47, 33, 32, 13, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, 33, 7, 13, -1, -1]}
}],
{
  "Name": "New", "Data": [
    {"Taxon": "Latin", "Segments": [13, -1, 6, 8, 15, 14]},
    {"Taxon": "French", "Segments": [13, -1, 15, 19, 6, -1]},
    {"Taxon": "Spanish", "Segments": [13, 8, 0, 67, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, -1, 9, 19, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, -1, 6, 19, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [13, -1, 6, 19, 15, -1]},
    {"Taxon": "Catalan", "Segments": [13, -1, 9, 8, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, -1, 9, 19, 32, -1]},
    {"Taxon": "Friulian", "Segments": [39, -1, 22, 25, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, -1, 6, 8, -1, -1]}
  ]
},
{
  "Name": "Old", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 0, 21, 15, 33, 15, 14]},
    {"Taxon": "French", "Segments": [19, 12, 79, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 12, 0, 35, 6, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 32, 50, -1, 50, 12, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 59, -1, -1, 36, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, 0, -1, -1, 36, 15, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 0, -1, -1, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, 38, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 12, 0, -1, -1, -1, 7, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 0, 81, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Good", "Data": [
    {"Taxon": "Latin", "Segments": [20, -1, 6, 13, 15, 14]},
    {"Taxon": "French", "Segments": [20, -1, 60, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 8, 0, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [20, 8, 73, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, -1, 60, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [20, -1, 60, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 9, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, -1, 60, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, -1, 9, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, -1, 15, 13, -1, -1]}
  ]
},
{
  "Name": "Bad", "Data": [
    {"Taxon": "Latin", "Segments": [27, 28, 33, 15, 14]},
    {"Taxon": "French", "Segments": [27, 28, 33, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, 33, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 28, 33, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 28, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [27, 28, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [27, 28, 33, -1, -1]},
    {"Taxon": "Walloon", "Segments": [27, 73, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, 52, 33, -1, -1]}
  ]
},
{
  "Name": "Rotten", "Data": [
    {"Taxon": "Latin", "Segments": [47, 15, 21, 34, 7, 24, 15, 14]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Spanish", "Segments": [47, 6, 49, 29, 7, 49, 6, -1]},
  "Taxon": "Italian", "Segments": [47, 15, 21, 34, 7, 24, 6, -1]},
  "Taxon": "Catalan", "Segments": [47, 15, 49, 29, 7, 21, -1, -1]},
  "Taxon": "Romanian", "Segments": [47, 15, 21, 34, 0, 24, -1, -1]}
}],
{
  "Name": "Rotten-Putrem", "Data": [
    {"Taxon": "Latin", "Segments": [47, 15, 21, 34, 0, 27]},
    {"Taxon": "Spanish", "Segments": [47, 6, 49, 29, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 6, 24, 29, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 6, 49, 29, 45, -1]}
  ]
},
{
  "Name": "Dirty", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 34, 24, 7, 24, 15, 14]},
    {"Taxon": "Spanish", "Segments": [14, 6, 29, 24, 7, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 9, 34, 24, 7, 24, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 9, 29, 24, 7, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 9, 29, 24, 7, 24, 15, -1]}
  ]
},
{
  "Name": "Dirty-Spurcus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 47, 15, 34, 65, 15, 14]},
    {"Taxon": "Italian", "Segments": [-1, 14, 47, 9, 34, 50, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 47, 15, 29, 50, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [7, 17, 47, 15, 29, 50, 15, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 47, 9, 34, 50, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 47, 15, 34, 50, -1, -1]}
  ]
},
{
  "Name": "Straight", "Data": [
    {"Taxon": "Latin", "Segments": [24, 38, 34, -1, 26, 50, 21, 15, 14]},
    {"Taxon": "French", "Segments": [24, -1, 37, 8, 28, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, -1, 34, -1, 7, 21, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 7, 29, -1, 58, -1, 21, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 7, 29, -1, 59, -1, 21, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 29, -1, 32, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 34, -1, 72, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, -1, 34, -1, 32, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 34, -1, 0, 47, 21, -1, -1]}
  ]
},
{
  "Name": "Round", "Data": [
    {"Taxon": "Latin", "Segments": [34, 6, 21, 15, 13, 24, 15, 14]},
    {"Taxon": "French", "Segments": [37, 60, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [34, 0, 24, 6, 13, 24, 6, -1]},
    {"Taxon": "Italian", "Segments": [34, 7, 21, 6, 13, 24, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [37, 0, 24, 60, -1, 24, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [37, 45, 24, 60, -1, 24, 15, -1]},
    {"Taxon": "Catalan", "Segments": [34, 4, 24, 6, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [34, 60, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [21, 28, 34, 9, 13, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [34, 4, 21, 15, 13, 24, -1, -1]}
  ]
},
{
  "Name": "SharpAsAKnife", "Data": [
    {"Taxon": "Latin", "Segments": [28, 50, 22, 21, 15, 14]},
    {"Taxon": "Spanish", "Segments": [28, 85, 15, 49, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [30, 85, 15, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 1, 15, 21, -1, -1]}
  ]
},
{
  "Name": "DullAsAKnife", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [61, 0, 20, 0, 21, 0, 27]},
  "Taxon": "Italian", "Segments": [-1, 32, 20, 0, 21, 0, -1]}
}],
{
  "Name": "DullAsAKnife-Retusus", "Data": [
    {"Taxon": "Latin", "Segments": [34, 0, 21, 22, 14, 15, 14]},
    {"Taxon": "Italian", "Segments": [34, 0, 21, 15, 48, 6, -1]}
  ]
},
{
  "Name": "Smooth", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 52, 8, 0, 27]},
    {"Taxon": "Italian", "Segments": [14, 6, 28, 19, 0, -1]},
    {"Taxon": "Catalan", "Segments": [14, 15, 28, 8, -1, -1]}
  ]
},
{
  "Name": "Smooth-Nitidus", "Data": [
    {"Taxon": "Latin", "Segments": [13, 7, 21, 7, 24, 15, 14]},
    {"Taxon": "French", "Segments": [13, 32, 21, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, 7, 49, 7, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 0, 21, -1, 21, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 32, 10, 15, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 32, 10, 15, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [13, 32, 21, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 32, 21, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 0, 21, 0, 24, -1, -1]}
  ]
},
{
  "Name": "Wet", "Data": [
    {"Taxon": "Latin", "Segments": [22, 27, 7, 24, 15, 14]},
    {"Taxon": "Italian", "Segments": [15, 27, 7, 24, 6, -1]},
    {"Taxon": "Friulian", "Segments": [15, 27, 7, 24, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, 27, 0, 24, -1, -1]}
  ]
},
{
  "Name": "Wet-Udus", "Data": [
    {"Taxon": "Latin", "Segments": [22, 24, 15, 14]},
    {"Taxon": "Romanian", "Segments": [15, 24, -1, -1]}
  ]
},
{
  "Name": "Dry", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 50, 50, 15, 14]},
    {"Taxon": "French", "Segments": [14, 32, -1, 50, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 50, 50, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 50, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 0, -1, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [14, 32, 50, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 32, -1, 44, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 32, -1, 50, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 0, 50, -1, -1, -1]}
  ]
},
{
  "Name": "Correct", "Data": [
    {"Taxon": "Latin", "Segments": [50, 6, 34, 34, 26, 50, 21, 15, 14]},
    {"Taxon": "Italian", "Segments": [50, 6, 34, 34, 0, 21, 21, 6, -1]}
  ]
},
{
  "Name": "Near", "Data": [
    {"Taxon": "Latin", "Segments": [47, 34, 6, 50, 14, 7, -1, -1, 27, 15, 14]},
    {"Taxon": "Spanish", "Segments": [47, 29, 6, 35, -1, 7, -1, -1, 27, 6, -1]},
    {"Taxon": "Italian", "Segments": [47, 34, 9, 14, 14, 7, -1, -1, 27, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [47, 29, 6, -1, 14, 7, -1, -1, 27, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 29, 6, -1, 14, 7, -1, -1, 27, 15, -1]},
    {"Taxon": "Catalan", "Segments": [47, 29, 6, -1, -1, -1, 7, 48, 27, 0, -1]},
  ]
}
```

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```
{
  "Taxon": "Friulian", "Segments": [47, 34, 6, -1, 14, 7, -1, -1, 27, -1, -1]}
}],
{
  "Name": "Near-AdPrope", "Data": [
    {"Taxon": "Latin", "Segments": [28, 24, 47, 34, 6, 47, 34, 0]},
    {"Taxon": "Catalan", "Segments": [4, -1, 47, 29, 9, 47, -1, -1]},
    {"Taxon": "Romanian", "Segments": [28, -1, 47, 34, 40, 47, -1, 0]}
  ]
},
{
  "Name": "Near-Pressus", "Data": [
    {"Taxon": "Latin", "Segments": [47, 34, 0, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [47, 37, 0, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [47, 34, 32, 14, 14, 6, -1]},
    {"Taxon": "Walloon", "Segments": [47, 34, 32, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Near-Vicinus", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 38, 50, 38, 13, 15, 14]},
    {"Taxon": "French", "Segments": [19, 8, 28, 48, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, -1, 0, 57, 7, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 7, 44, 7, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 7, 48, 7, 39, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, 7, 48, 7, 39, 15, -1]},
    {"Taxon": "Catalan", "Segments": [20, -1, 4, -1, 7, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, -1, 7, 3, 64, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, -1, 7, 44, 7, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 0, 44, 7, 13, -1, -1]}
  ]
},
{
  "Name": "Near-Circa", "Data": [
    {"Taxon": "Latin", "Segments": [50, 7, 34, 50, 28]},
    {"Taxon": "French", "Segments": [57, 0, 29, 50, 28]}
  ]
},
{
  "Name": "Far", "Data": [
    {"Taxon": "French", "Segments": [33, 8, 62, -1, 21, 62, -1, -1]},
    {"Taxon": "Italian", "Segments": [33, -1, 6, 13, 21, 28, 13, 6]},
    {"Taxon": "Catalan", "Segments": [36, -1, 15, 13, 21, 28, -1, -1]},
    {"Taxon": "Friulian", "Segments": [33, -1, 6, 13, 21, 28, 13, -1]}
  ]
},
{
  "Name": "Right-Dextrem", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 0, 50, 14, 21, 34, 15, 27]},
    {"Taxon": "Spanish", "Segments": [24, 12, 0, -1, 14, 21, 29, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, -1, 32, -1, 14, 21, 34, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 32, -1, 14, 21, 29, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 32, -1, 17, 21, 29, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 0, -1, 14, 21, 29, 4, -1]},
    {"Taxon": "Friulian", "Segments": [24, 12, 0, -1, 14, 21, 34, 7, -1]}
  ]
},
{
  "Name": "Left", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 13, -1, 7, 14, 21, 34, 15, 27]},
    {"Taxon": "French", "Segments": [14, 4, 13, -1, 32, 14, 21, 37, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 7, 13, 12, 0, 14, 21, 29, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 7, 13, -1, 0, 14, 21, 34, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, -1, -1, 32, 17, 21, 29, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, -1, -1, 32, 17, 21, 29, 15, -1]},
    {"Taxon": "Friulian", "Segments": [14, 7, 39, -1, 0, 14, 21, 34, 7, -1]}
  ]
},
{
  "Name": "Red", "Data": [
    {"Taxon": "Latin", "Segments": [34, 15, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [37, 15, -1, -1, -1, -1]}
  ]
}
```

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```
{
  "Taxon": "Spanish", "Segments": [34, 6, -1, 35, 6, -1]},
  "Taxon": "Italian", "Segments": [34, 6, 14, 14, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [37, 6, -1, 17, 95, -1]},
  "Taxon": "Portuguese", "Segments": [37, 6, -1, 17, 15, -1]},
  "Taxon": "Catalan", "Segments": [34, 6, -1, 14, -1, -1]},
  "Taxon": "Friulian", "Segments": [34, 9, -1, 14, -1, -1]},
  "Taxon": "Romanian", "Segments": [29, 6, -1, 17, 15, -1]}
}],
{
  "Name": "Red-Vermiculus", "Data": [
    {"Taxon": "Latin", "Segments": [19, 0, 34, 27, 7, 50, 15, 33, 15, 14]},
    {"Taxon": "French", "Segments": [19, 32, 37, 27, 86, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 0, 29, 27, 0, 35, 6, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [19, 0, 34, 27, 7, 36, -1, 36, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 0, 37, 27, 0, -1, -1, 36, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [19, 45, 29, 27, 59, -1, -1, 36, 15, -1]},
    {"Taxon": "Catalan", "Segments": [20, 4, 34, 27, 32, -1, -1, 36, -1, -1]}
  ]
},
{
  "Name": "Red-Rubeus", "Data": [
    {"Taxon": "Latin", "Segments": [34, 15, -1, 20, 0, 15, 14]},
    {"Taxon": "French", "Segments": [37, 15, -1, 3, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [34, 15, -1, 20, 12, 6, -1]},
    {"Taxon": "Italian", "Segments": [34, 9, 20, 20, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [34, 15, -1, 20, 0, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [34, 15, -1, 20, 0, 6, -1]},
    {"Taxon": "Catalan", "Segments": [34, 15, -1, 10, 0, -1, -1]},
    {"Taxon": "Walloon", "Segments": [34, 9, -1, 44, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [34, 18, -1, 20, -1, -1, -1]}
  ]
},
{
  "Name": "Green", "Data": [
    {"Taxon": "Latin", "Segments": [8, 7, 34, 7, 24, 0, 27]},
    {"Taxon": "French", "Segments": [19, 0, 37, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 0, 29, -1, 24, 0, -1]},
    {"Taxon": "Italian", "Segments": [19, 0, 34, -1, 24, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, 0, 29, -1, 24, 45, -1]},
    {"Taxon": "Portuguese", "Segments": [19, 0, 29, -1, 24, 45, -1]},
    {"Taxon": "Catalan", "Segments": [19, 32, 29, -1, 21, -1, -1]},
    {"Taxon": "Walloon", "Segments": [19, 32, 37, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 32, 34, -1, 21, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, 0, 29, -1, 24, 0, -1]}
  ]
},
{
  "Name": "Yellow", "Data": [
    {"Taxon": "Latin", "Segments": [1, 28, 33, 20, 7, 13, 15, 14]},
    {"Taxon": "French", "Segments": [3, 6, -1, -1, -1, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, 32, -1, -1, -1, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 28, 33, 20, 0, 13, -1, -1]}
  ]
},
{
  "Name": "Yellow-Amarellus", "Data": [
    {"Taxon": "Latin", "Segments": [28, 27, 28, 34, 0, 33, 33, 15, 14]},
    {"Taxon": "Spanish", "Segments": [28, 27, 28, 29, 7, -1, 5, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [30, 27, 28, 29, 32, -1, 33, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [30, 27, 30, 29, 32, -1, 33, 15, -1]}
  ]
},
{
  "Name": "Yellow-Croceus", "Data": [
    {"Taxon": "Latin", "Segments": [50, 34, 6, 50, 0, 15, 14]},
    {"Taxon": "Italian", "Segments": [50, 34, 6, 44, 0, 6, -1]},
    {"Taxon": "Catalan", "Segments": [1, 29, 9, 50, -1, -1, -1]}
  ]
}
```


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```
}},
{"Name": "White", "Data": [
  {"Taxon": "Latin", "Segments": [28, 33, 20, 15, 14]},
  {"Taxon": "Spanish", "Segments": [28, 33, 20, 6, -1]},
  {"Taxon": "Italian", "Segments": [28, 33, 20, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 8, 19, 15, -1]},
  {"Taxon": "Portuguese", "Segments": [28, 33, 19, 15, -1]},
  {"Taxon": "Catalan", "Segments": [28, 33, 20, -1, -1]},
  {"Taxon": "Romanian", "Segments": [28, 33, 20, -1, -1]}
]},
{"Name": "One", "Data": [
  {"Taxon": "Latin", "Segments": [22, 13, 15, 14]},
  {"Taxon": "French", "Segments": [94, -1, -1, -1]},
  {"Taxon": "Spanish", "Segments": [15, 13, 6, -1]},
  {"Taxon": "Italian", "Segments": [15, 13, 6, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [91, -1, -1, -1]},
  {"Taxon": "Portuguese", "Segments": [91, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [15, 13, -1, -1]},
  {"Taxon": "Walloon", "Segments": [60, -1, -1, -1]},
  {"Taxon": "Friulian", "Segments": [15, 75, -1, -1]},
  {"Taxon": "Romanian", "Segments": [15, 13, 15, -1]}
]},
{"Name": "Two-Duos", "Data": [
  {"Taxon": "Latin", "Segments": [24, 15, 2, 14]},
  {"Taxon": "French", "Segments": [24, -1, 79, -1]},
  {"Taxon": "Spanish", "Segments": [24, -1, 6, 14]},
  {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 18, 14]},
  {"Taxon": "Portuguese", "Segments": [24, -1, 18, 17]},
  {"Taxon": "Catalan", "Segments": [24, -1, 6, 14]},
  {"Taxon": "Walloon", "Segments": [24, -1, 72, -1]},
  {"Taxon": "Friulian", "Segments": [24, -1, 18, -1]},
  {"Taxon": "Romanian", "Segments": [24, -1, 18, -1]}
]},
{"Name": "Two-Duae", "Data": [
  {"Taxon": "Latin", "Segments": [24, 15, -1, 55]},
  {"Taxon": "Italian", "Segments": [24, 15, -1, 0]},
  {"Taxon": "Romanian", "Segments": [24, 6, 8, 4]}
]},
{"Name": "Two-Duas", "Data": [
  {"Taxon": "Latin", "Segments": [24, 15, 28, 14]},
  {"Taxon": "PortugueseBrazil", "Segments": [24, 15, 30, 14]},
  {"Taxon": "Portuguese", "Segments": [24, 15, 30, 17]}
]},
{"Name": "Three", "Data": [
  {"Taxon": "Latin", "Segments": [21, 34, -1, 26, 14]},
  {"Taxon": "French", "Segments": [21, 37, 8, 84, -1]},
  {"Taxon": "Spanish", "Segments": [21, 29, -1, 0, 14]},
  {"Taxon": "Italian", "Segments": [21, 34, -1, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [21, 29, -1, 0, 14]},
  {"Taxon": "Portuguese", "Segments": [21, 29, -1, 0, 17]},
  {"Taxon": "Catalan", "Segments": [21, 34, -1, 32, 14]},
  {"Taxon": "Walloon", "Segments": [21, 34, -1, 72, -1]},
  {"Taxon": "Friulian", "Segments": [21, 34, -1, 26, -1]},
  {"Taxon": "Romanian", "Segments": [21, 34, -1, 58, -1]}
]},
{"Name": "Four", "Data": [
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Latin", "Segments": [87, -1, 28, 21, 21, 8, 6, 34, -1]},
  "Taxon": "French", "Segments": [50, -1, 28, -1, 21, -1, -1, 37, -1]},
  "Taxon": "Spanish", "Segments": [50, 8, 28, -1, 21, -1, -1, 29, 6]},
  "Taxon": "Italian", "Segments": [50, 8, 28, 21, 21, -1, -1, 34, 6]},
  "Taxon": "PortugueseBrazil", "Segments": [50, 8, 28, -1, 21, -1, -1, 29, 15]},
  "Taxon": "Portuguese", "Segments": [50, 8, 28, -1, 21, -1, -1, 29, 15]},
  "Taxon": "Catalan", "Segments": [50, 8, 28, -1, 21, -1, -1, 29, 4]},
  "Taxon": "Walloon", "Segments": [50, 8, 28, -1, 21, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [50, 8, 28, -1, 21, -1, -1, 34, 7]},
  "Taxon": "Romanian", "Segments": [47, -1, 28, -1, 21, -1, -1, 34, 15]}
}],
{
  "Name": "Five", "Data": [
    {"Taxon": "Latin", "Segments": [87, 38, 13, 87, -1, 0]},
    {"Taxon": "French", "Segments": [14, 64, -1, 50, -1, -1]},
    {"Taxon": "Spanish", "Segments": [57, 7, 13, 50, -1, 6]},
    {"Taxon": "Italian", "Segments": [44, 7, 75, 50, 8, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 42, -1, 50, -1, 15]},
    {"Taxon": "Portuguese", "Segments": [14, 42, -1, 50, -1, 15]},
    {"Taxon": "Catalan", "Segments": [14, 7, 75, 50, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 64, -1, 50, -1, -1]},
    {"Taxon": "Friulian", "Segments": [44, 7, 75, 50, -1, -1]},
    {"Taxon": "Romanian", "Segments": [44, 7, 13, 44, -1, -1]}
  ]
},
{
  "Name": "Here", "Data": [
    {"Taxon": "Latin", "Segments": [0, 50, 50, 15, 27, 61, 38, 50]},
    {"Taxon": "Spanish", "Segments": [28, -1, 50, -1, -1, -1, 7, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 50, 8, -1, -1, 7, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, -1, 50, -1, -1, -1, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [30, -1, 50, -1, -1, -1, 7, -1]},
    {"Taxon": "Catalan", "Segments": [28, -1, 50, -1, -1, -1, 7, -1]},
    {"Taxon": "Friulian", "Segments": [28, -1, 50, -1, -1, -1, 7, -1]}
  ]
},
{
  "Name": "There", "Data": [
    {"Taxon": "Latin", "Segments": [7, 33, 33, 52, 50]},
    {"Taxon": "French", "Segments": [-1, -1, 33, 28, -1]},
    {"Taxon": "Spanish", "Segments": [28, -1, 5, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 33, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 33, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [-1, -1, 33, 28, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 36, 28, -1]},
    {"Taxon": "Walloon", "Segments": [-1, -1, 33, 28, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 33, 28, -1]}
  ]
},
{
  "Name": "There-Ibi", "Data": [
    {"Taxon": "Latin", "Segments": [7, 20, 38]},
    {"Taxon": "Italian", "Segments": [-1, 19, 7]}
  ]
},
{
  "Name": "There-AdIbi", "Data": [
    {"Taxon": "Spanish", "Segments": [28, 7]},
    {"Taxon": "PortugueseBrazil", "Segments": [28, 7]},
    {"Taxon": "Portuguese", "Segments": [30, 7]}
  ]
},
{
  "Name": "Who-Qui", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 7, 14]},
    {"Taxon": "French", "Segments": [50, -1, 7, -1]},
    {"Taxon": "Italian", "Segments": [50, -1, 7, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Catalan", "Segments": [50, -1, 7, -1]},
  "Taxon": "Walloon", "Segments": [50, -1, 38, -1]},
  "Taxon": "Friulian", "Segments": [50, 8, 7, -1]}
}],
{
  "Name": "Who-Quem", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 0, 27, -1]},
    {"Taxon": "Spanish", "Segments": [50, 12, 0, 13, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 46, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [44, -1, 7, 13, 0]}
  ]
},
{
  "Name": "What", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 7, 24]},
    {"Taxon": "French", "Segments": [50, 8, 28, -1]},
    {"Taxon": "Spanish", "Segments": [50, -1, 0, -1]},
    {"Taxon": "Italian", "Segments": [50, -1, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, -1, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [50, -1, 45, -1]},
    {"Taxon": "Catalan", "Segments": [50, -1, 32, -1]},
    {"Taxon": "Walloon", "Segments": [50, 8, 56, -1]},
    {"Taxon": "Friulian", "Segments": [44, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [44, -1, 0, -1]}
  ]
},
{
  "Name": "When-Quando", "Data": [
    {"Taxon": "Latin", "Segments": [87, -1, 28, 13, 24, 2]},
    {"Taxon": "French", "Segments": [50, -1, 41, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 8, 28, 13, 24, 6]},
    {"Taxon": "Italian", "Segments": [50, 8, 28, 13, 24, 6]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 8, 43, -1, 24, 15]},
    {"Taxon": "Portuguese", "Segments": [50, 8, 43, -1, 24, 15]},
    {"Taxon": "Catalan", "Segments": [50, 8, 28, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 8, 28, 13, 24, -1]},
    {"Taxon": "Friulian", "Segments": [50, 8, 28, 13, 21, -1]},
    {"Taxon": "Romanian", "Segments": [50, -1, 45, 13, 24, -1]}
  ]
},
{
  "Name": "How-Quomodo", "Data": [
    {"Taxon": "Latin", "Segments": [87, 2, 27, 6, 24, 6]},
    {"Taxon": "French", "Segments": [50, 9, 27, 41, -1, -1]},
    {"Taxon": "Spanish", "Segments": [50, 6, 27, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [50, 6, 27, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [50, 6, 27, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [50, 6, 27, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [50, 9, 27, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [50, 9, 27, 62, -1, -1]},
    {"Taxon": "Friulian", "Segments": [44, 0, 27, 22, 21, -1]},
    {"Taxon": "Romanian", "Segments": [50, 15, 27, -1, -1, -1]}
  ]
},
{
  "Name": "Not", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 13]},
    {"Taxon": "French", "Segments": [13, 89, -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, 89, -1]},
  ]
}
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Friulian", "Segments": [13, 6, -1]},
  {"Taxon": "Romanian", "Segments": [13, 15, -1]}
}],
{"Name": "Not-Nec", "Data": [
  {"Taxon": "Latin", "Segments": [13, 0, 50]},
  {"Taxon": "French", "Segments": [13, 7, -1]},
  {"Taxon": "Spanish", "Segments": [13, 7, -1]},
  {"Taxon": "Italian", "Segments": [13, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [13, 46, -1]},
  {"Taxon": "Portuguese", "Segments": [13, 53, -1]},
  {"Taxon": "Catalan", "Segments": [13, 7, -1]},
  {"Taxon": "Walloon", "Segments": [13, 64, -1]}
]},
{"Name": "At", "Data": [
  {"Taxon": "Latin", "Segments": [28, 24]},
  {"Taxon": "French", "Segments": [28, -1]},
  {"Taxon": "Spanish", "Segments": [28, -1]},
  {"Taxon": "Italian", "Segments": [28, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, -1]},
  {"Taxon": "Portuguese", "Segments": [30, -1]},
  {"Taxon": "Catalan", "Segments": [28, -1]},
  {"Taxon": "Walloon", "Segments": [28, -1]},
  {"Taxon": "Friulian", "Segments": [28, -1]},
  {"Taxon": "Romanian", "Segments": [28, -1]}
]},
{"Name": "In-In", "Data": [
  {"Taxon": "Latin", "Segments": [7, 13]},
  {"Taxon": "Spanish", "Segments": [0, 13]},
  {"Taxon": "Italian", "Segments": [7, 13]},
  {"Taxon": "PortugueseBrazil", "Segments": [46, -1]},
  {"Taxon": "Portuguese", "Segments": [53, -1]},
  {"Taxon": "Catalan", "Segments": [4, 13]},
  {"Taxon": "Romanian", "Segments": [45, 13]}
]},
{"Name": "In-Deintus", "Data": [
  {"Taxon": "Latin", "Segments": [24, 0, 7, 13, 21, 15, 14]},
  {"Taxon": "French", "Segments": [24, 41, -1, -1, -1, -1, -1]},
  {"Taxon": "Catalan", "Segments": [24, 7, -1, 13, -1, -1, 14]}
]},
{"Name": "With-Cum", "Data": [
  {"Taxon": "Latin", "Segments": [50, 15, 27]},
  {"Taxon": "Spanish", "Segments": [50, 6, 13]},
  {"Taxon": "Italian", "Segments": [50, 6, 13]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 60, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 60, -1]},
  {"Taxon": "Romanian", "Segments": [50, 15, -1]}
]},
{"Name": "With-Abhoc", "Data": [
  {"Taxon": "Latin", "Segments": [28, 20, 61, 6, 65]},
  {"Taxon": "French", "Segments": [28, 19, -1, 0, 50]},
  {"Taxon": "Walloon", "Segments": [28, 19, -1, 15, -1]}
]},
{"Name": "And-Et", "Data": [
  {"Taxon": "Latin", "Segments": [0, 21]},
  {"Taxon": "French", "Segments": [0, -1]},
  {"Taxon": "Spanish", "Segments": [7, -1]},
```

Appendix 1 - Tongue Twister Configuration

```
{
  "Taxon": "Italian", "Segments": [0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [7, -1]},
  {"Taxon": "Portuguese", "Segments": [7, -1]},
  {"Taxon": "Catalan", "Segments": [7, -1]},
  {"Taxon": "Walloon", "Segments": [32, -1]},
  {"Taxon": "Friulian", "Segments": [0, -1]},
  {"Taxon": "Romanian", "Segments": [0, -1]}
]},
{"Name": "And-Si", "Data": [
  {"Taxon": "Latin", "Segments": [14, 38, 50]},
  {"Taxon": "French", "Segments": [14, 7, -1]},
  {"Taxon": "Spanish", "Segments": [14, 7, -1]},
  {"Taxon": "Italian", "Segments": [14, 7, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [14, 42, -1]},
  {"Taxon": "Portuguese", "Segments": [14, 42, -1]},
  {"Taxon": "Catalan", "Segments": [14, 7, -1]},
  {"Taxon": "Walloon", "Segments": [14, 7, -1]},
  {"Taxon": "Friulian", "Segments": [14, 7, -1]},
  {"Taxon": "Romanian", "Segments": [17, 7, -1]}
]},
{"Name": "Because-Quod", "Data": [
  {"Taxon": "Latin", "Segments": [87, 6, 24]},
  {"Taxon": "French", "Segments": [50, 4, -1]},
  {"Taxon": "Spanish", "Segments": [50, 0, -1]},
  {"Taxon": "Italian", "Segments": [50, 0, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [50, 7, -1]},
  {"Taxon": "Portuguese", "Segments": [50, 45, -1]},
  {"Taxon": "Catalan", "Segments": [50, 4, -1]},
  {"Taxon": "Walloon", "Segments": [50, 38, -1]},
  {"Taxon": "Friulian", "Segments": [50, 0, -1]},
  {"Taxon": "Romanian", "Segments": [50, 4, -1]}
]}
]
}
```

Appendix 2 - RevBayes Source File

```
#####
# RevBayes Source File for Linguistomics Project #
#####
clear()
path = "C:/Users/shawn/Documents/Code/Linguistomics/Run/Run2/"
gammapath = path+"Gamma.trees"

# Read in discrete character data
data = readDiscreteCharacterData(path+"Characters.nex")

# Get some useful variables from the data. We need these later on
num_taxa <- data.ntaxa()

# Number of branches in an rooted tree
num_branches <- 2 * num_taxa - 2
taxa <- data.taxa()

# Create helper variables
moves      = VectorMoves()
monitors   = VectorMonitors()

#####
# Tree Model #
#####

# Outgroup is a clade consisting of one language
out_group = clade("Latin")

# Prior distribution on the tree topology
topology ~ dnUniformTopology(taxa, outgroup=out_group, rooted=TRUE)

# These are moves that change the tree topology
moves.append(mvNNI(topology, weight=num_taxa/2.0))
moves.append(mvSPR(topology, weight=num_taxa/10.0))

# Branch length prior
for (i in 1:num_branches) {
  bl[i] ~ dnExponential(10.0)
  moves.append(mvScale(bl[i]))
}

TL := sum(bl)

psi := treeAssembly(topology, bl)

#####
# Substitution Model #
#####

# This is the number of unique characters from the segment filters
unique_chars = 1

#####
# Gamma model for among-site variation #
```


Appendix 2 - RevBayes Source File

```
#####
alpha ~ dnUniform(0, 10.0)
moves.append(mvScale(alpha, weight=1))
site_rates := fnDiscretizeGamma(alpha, alpha, 4)

#####
# PhyloCTMC Model #
#####
seq ~ dnPhyloCTMC(tree=psi, Q=Q, type="Standard", siteRates=site_rates)
seq.clamp(data)

#####
# Analysis #
#####

# You can use any node as the argument of model()
mymodel = model(psi)
n_gen = 10

# This prints monitors to the screen
monitors.append(mnScreen(TL, printgen=n_gen))

# This monitors the trees and puts them in a file
monitors.append(mnFile(psi, filename=gammapath, printgen=n_gen))

# Model monitor
monitors.append(mnModel(filename=path+"Gamma.log", printgen=n_gen))
mymcmc = mcmc(mymodel, moves, monitors, nruns=1, combine="mixed")
mymcmc.run(generations=1000)

# Summarizes the MCMC runs
mymcmc.operatorSummary()

#####
# Post processing #
#####
treetrace = readTreeTrace(gammapath, outgroup=out_group)
map_tree = mapTree(treetrace, path+"Gamma_MAP.tree")
mcc_tree = mccTree(treetrace, path+"test.con.tre")
consensus_tree = consensusTree(treetrace, path+"Gamma_Consensus.tree")

# Exit the program
q()
```

Appendix 3 - Character File

```
#NEXUS
begin taxa;
  dimensions ntax=10;
  taxlabels Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian
Romanian;
end;

begin characters;
  dimensions ntax=10 nchar=2524;
  format datatype=STANDARD interleave=yes respectcase gap=- missing=? symbols="A";

matrix
[ I ]
Latin          -012          - e g o:
French         34--          ʒ ə - -
Spanish        5--6          j - - o
Italian        -7-6          - i - o
PortugueseBrazil -0-8        - e - w
Portuguese     -0-8          - e - w
Catalan        3--9          ʒ - - ɔ
Walloon        1011--        ɔ̃ ɪ - -
Friulian       12--6          j - - o
Romanian       120-8         j e - w

[ We ]
Latin          132-14        n o: - s
French         1315--        n u - -
Spanish        136-14        n o - s
Italian        1327-         n o: i -
PortugueseBrazil 1316-14     n ɔj - s
Portuguese     139-17        n ɔ - ʃ
Catalan
Walloon        136--         n o - -
Friulian       132--         n o: - -
Romanian       1318--        n oj - -

[ YouPlural ]
Latin          82-14         w o: - s
French         1915--        v u - -
Spanish        206-14        b o - s
Italian        1927-         v o: i -
PortugueseBrazil 191614-     v ɔj s -
Portuguese     196-17        v o - ʃ
Catalan        2015-14       b u - s
Walloon        196-14        v o - s
Friulian       192--         v o: - -
Romanian       1918--        v oj - -

[ YouSingular ]
Latin          2122          t u:
French         2123          t y
Spanish        2115          t u
Italian        2115          t u
PortugueseBrazil 2115        t u
Portuguese     2115          t u
Catalan        2115          t u
```

Appendix 3 - Character File

Walloon	2123	t y
Friulian	2115	t u
Romanian	2115	t u
[YouSingular]		
Latin		
French		
Spanish	-151421024	- u s t e d
Italian		
PortugueseBrazil	19614-0-	v o s - e -
Portuguese	19914-0-	v o s - e -
Catalan	19614210-	v o s t e -
Walloon		
Friulian		
Romanian		
[Woman]		
Latin	2526-277-13-28	f e : - m i - n - a
French	2528-27-----	f a - m - - - -
Spanish	-0-27-2029-28	- e - m - b r - a
Italian	25027277-13-28	f e m m i - n - a
PortugueseBrazil	250-270---30	f e - m e - - - e
Portuguese	250-2712---30	f e - m j - - - e
Catalan	250-27-2029-28	f e - m - b r - a
Walloon	2531-27-----	f œ - m - - - -
Friulian	2532-277-13-32	f ε - m i - n - ε
Romanian	250-270--120	f e - m e - - j e
[Woman]		
Latin	2715337034027	m u l i e r e m
French		
Spanish	271535-029--	m u x - e r - -
Italian	27636360---	m o ł ł e - - -
PortugueseBrazil	271536-037--	m u ł - e ʁ - -
Portuguese	271536-029--	m u ł - e r - -
Catalan	271536-0---	m u ł - e - - -
Walloon		
Friulian	2715--3834--	m u - - i : r - -
Romanian	2715-120340-	m u - j e r e -
[Woman]		
Latin	2462771328	d o m i n a
French	242827---	d a m - - -
Spanish	246--3928	d o - - p a
Italian	24913-1328	d o n - n a
PortugueseBrazil	246--1330	d o - - n e
Portuguese	246--1330	d o - - n e
Catalan	249--134	d o - - n ə
Walloon	243127---	d œ m - - -
Friulian	249--130	d o - - n e
Romanian	244027-134	d oam - n ə
[Child]		
Latin	71325281321027	i n f a n t e m
French	41-2541----	ã - f ã - - - -
Spanish	713252813210-	i n f a n t e -

Appendix 3 - Character File

Italian	--252813210-	- - f a n t e -
PortugueseBrazil	42-2543-447-	ĩ - f ẽ - ʃ i -
Portuguese	42-2543-2145-	ĩ - f ẽ - t i -
Catalan		
Walloon	32-2541----	ε - f ã - - - -
Friulian		
Romanian		

[Child]

Latin		
French		
Spanish	137396	n i ɲ o
Italian	137136	n i n o
PortugueseBrazil	1301346	n e n ẽj
Portuguese	1301346	n e n ẽj
Catalan	13013-	n e n -
Walloon		
Friulian		
Romanian		

[Wife]

Latin	-14476131428	- s p o n s a
French	0-4715-48-	e - p u - z -
Spanish	014476-1428	e s p o - s a
Italian	-14479-4828	- s p ɔ - z a
PortugueseBrazil	714476-4828	i s p o - z a
Portuguese	4517476-4830	i ʃ p o - z ɐ
Catalan	414479-484	ə s p ɔ - z ə
Walloon		
Friulian		
Romanian		

[Husband]

Latin	27283438211514	m a r i: t u s
French	2728377---	m a ʁ i - - -
Spanish	2728297496-	m a r i ð o -
Italian	2728347216-	m a r i t o -
PortugueseBrazil	27282972415-	m a r i d u -
Portuguese	27302974915-	m ɐ r i ð u -
Catalan	272829721--	m a r i t - -
Walloon		
Friulian	2728343821--	m a r i: t - -
Romanian	27434721--	m ər i t - -

[Husband]

Latin	-1447613141514	- s p o n s u s
French	0-4715----	e - p u - - - -
Spanish	014476-146-	e s p o - s o -
Italian	-14479-486-	- s p ɔ - z o -
PortugueseBrazil	714476-4815-	i s p o - z u -
Portuguese	4517476-4815-	i ʃ p o - z u -
Catalan	414479-14--	ə s p ɔ - s - -
Walloon		
Friulian	-14472-14--	- s p o: - s - -
Romanian		

Appendix 3 - Character File

[Husband]

Latin	1465071514	s o k i u s
French		
Spanish		
Italian	14944-6-	s ɔ ʃ - o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	14651---	s o t s - - -

[Mother]

Latin	27522134027	m a : t r e m
French	270-37--	m e - ʁ - -
Spanish	272849290-	m a ð r e -
Italian	275224340-	m a : d r e -
PortugueseBrazil	2753----	m ẽj - - - -
Portuguese	2753----	m ẽj - - - -
Catalan	2728-294-	m a - r ə -
Walloon	270-54--	m e - ʀ - -
Friulian	2728-347-	m a - r i -
Romanian		

[Father]

Latin	472821340	p a t r e
French	470-37-	p e - ʁ -
Spanish	472849290	p a ð r e
Italian	475224340	p a : d r e
PortugueseBrazil	4755---	p aj - - -
Portuguese	4755---	p aj - - -
Catalan	4728-294	p a - r ə
Walloon	4756-34-	p ɛ : - r -
Friulian	4728-347	p a - r i
Romanian		

[Father]

Latin	21282128	t a t a
French		
Spanish	21282128	t a t a
Italian	21282128	t a t a
PortugueseBrazil	21282128	t a t a
Portuguese	21282128	t a t a
Catalan		
Walloon		
Friulian		
Romanian	2128214	t a t ə

[Animal]

Latin	28137272833728	a n i m a l i a
French	6--2728-12-	o - - m a - j -
Spanish	28337272839-28	a l i m a ɲ - a
Italian		
PortugueseBrazil		
Portuguese		
Catalan		

Appendix 3 - Character File

Walloon		
Friulian	-130275233--	- n e m a : l - -
Romanian	-1342728-120	- n ə m a - j e
[Animal]		
Latin	20261421728	b e : s t i a
French		
Spanish		
Italian	2071717-28	b i ʃ ʃ - a
PortugueseBrazil	207-17-30	b i - ʃ - ɐ
Portuguese	207-17-30	b i - ʃ - ɐ
Catalan		
Walloon		
Friulian	20714---	b i s - - -
Romanian		
[Fish]		
Latin	4771450027	p i s k e m
French		
Spanish	47057---	p e θ - - -
Italian	47017170-	p e ʃ ʃ e -
PortugueseBrazil	475817-7-	p e j ʃ - i -
Portuguese	475917-45-	p ɐ j ʃ - i -
Catalan	47017---	p e ʃ - - -
Walloon		
Friulian	473214---	p ɛ s - - -
Romanian	47017210-	p e ʃ t e -
[Fish]		
Latin		
French	478281460	p w a s õ
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	47-326160	p - ɛ h õ
Friulian		
Romanian		
[Bird]		
Latin	288027	a w e m
French		
Spanish	28200-	a b e -
Italian		
PortugueseBrazil	28197-	a v i -
Portuguese	281945-	a v i -
Catalan	288--	a w - -
Walloon		
Friulian		
Romanian		
[Bird]		
Latin	-2887-50-033331527	- a w i - k - e l l u m
French	828---48-6----	w a - - - z - o - - - -
Spanish		

Appendix 3 - Character File

Italian	--15-2144-3233336-	- - u - t ʃ - ε l l o -
PortugueseBrazil		
Portuguese		
Catalan	--15--14-0-36--	- - u - - s - e - ʎ - -
Walloon	--22--61-56----	- - u: - - h - ε: - - - -
Friulian	--15--441232-33--	- - u - - ʃ j ε - l - -
Romanian		
[Bird]		
Latin	47281414034027	p a s s e r e m
French		
Spanish	4728-3528296-	p a - x a r o -
Italian	472814140346-	p a s s e r o -
PortugueseBrazil	4728-14302915-	p a - s e r u -
Portuguese	4728-14302915-	p a - s e r u -
Catalan		
Walloon		
Friulian		
Romanian	4728-144290-	p a - s ə r e -
[Dog]		
Latin	50-2813027	k - a n e m
French	171262---	ʃ j ẽ - - -
Spanish	50-2813--	k - a n - -
Italian	50-28130-	k - a n e -
PortugueseBrazil	50-63---	k - ẽw̃ - -
Portuguese	50-63---	k - ẽw̃ - -
Catalan	50-28---	k - a - - -
Walloon	44-64---	ʃ - ẽ - - -
Friulian	65-2813--	c - a n - -
Romanian	50-66130-	k - ij n e -
[Louse]		
Latin	47-02415-50331514	p - e d u - k l u s
French	47-15-----	p - u - - - - -
Spanish	47126---35-6-	p j o - - - x - o -
Italian	47-72495050126-	p - i d ɔ k k j o -
PortugueseBrazil	47-7-6-3615--	p - i - o - ʎ u - -
Portuguese	47-7-6-3615--	p - i - o - ʎ u - -
Catalan	47-6---36---	p - o - - - ʎ - - -
Walloon	471215-----	p j u - - - - -
Friulian	47-0246-337--	p - e d o - l i - -
Romanian	47-42415-50120-	p - ə d u - k j e -
[Snake]		
Latin	14-03447-01321027	s - e r p - e n t e m
French	14-03747-41----	s - e ʁ p - ã - - - -
Spanish	14-0294712013210-	s - e r p j e n t e -
Italian	14-03447-013210-	s - e r p - e n t e -
PortugueseBrazil	14-03747-64-447-	s - e ʁ p - ẽ - ʃ i -
Portuguese	14-452947-64-2145-	s - i r p - ẽ - t i -
Catalan	14-43447-013---	s - ə r p - e n - - -
Walloon	1412323747-64----	s j ε ʁ p - ẽ - - - -
Friulian	14-283447-71321--	s - a r p - i n t - -
Romanian	17-282947-0----	ʃ - a r p - e - - - -

Appendix 3 - Character File

[Worm]

Latin	803427027	w e r m e m
French	19037---	v e r - - -
Spanish	20029270-	b e r m e -
Italian	19034270-	v e r m e -
PortugueseBrazil	19037277-	v e r m i -
Portuguese	190292745-	v e r m i -
Catalan	19322927--	v e r m - -
Walloon	19123254--	v j e r - -
Friulian	19123234--	v j e r - -
Romanian	1912034270	v j e r m e

[Tree]

Latin	283420634027	a r b o r e m
French	283720-37--	a r b - r - -
Spanish	282967633--	a r ß o l - -
Italian	2833200296-	a l b e r o -
PortugueseBrazil	2837196297-	a r v o r i -
Portuguese	282919152945-	a r v u r i -
Catalan	28-20-294-	a - b - r a -
Walloon	2-20----	o - b - - - -
Friulian	2834201533--	a r b u l - -
Romanian	2834206340-	a r b o r e -

[Forest]

Latin	14733828	s i l w a
French		
Spanish	140332028	s e l b a
Italian	140331928	s e l v a
PortugueseBrazil	143281928	s e w v a
Portuguese	1432681930	s e l v e
Catalan	140332028	s e l b a
Walloon		
Friulian	143233190	s e l v e
Romanian		

[Stick]

Latin	4752331514	p a l u s
French	472833--	p a l - -
Spanish	4728336-	p a l o -
Italian	4728336-	p a l o -
PortugueseBrazil	47288--	p a w - -
Portuguese	47288--	p a w - -
Catalan	472833--	p a l - -
Walloon		
Friulian	475233--	p a l - -
Romanian	472829--	p a r - -

[Fruit]

Latin	253422-50211514	f r u - k t u s
French	2537697----	f r u i - - - -
Spanish	252915--216-	f r u - t o -
Italian	253415-21216-	f r u - t t o -
PortugueseBrazil	252915--2130-	f r u - t e -
Portuguese	252915--2130-	f r u - t e -
Catalan	25291512-21--	f r u j - t - -

Appendix 3 - Character File

Walloon	255423----	f r y - - - -
Friulian	253415--21--	f r u - - t - -
Romanian	253415-5021--	f r u - k t - -
[Seed]		
Latin	142627013	s e: m e n
French		
Spanish		
Italian	140270-	s e m e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Seed]		
Latin	14027-01321714	s e m - e n t i s
French	14427-41---14	s ə m - ã - - - s
Spanish	1472712013210-	s i m j e n t e -
Italian	14027-013210-	s e m - e n t e -
PortugueseBrazil	14027-64-447-	s e m - ã - ŷ i -
Portuguese	144527-64-2145-	s i m - ã - t i -
Catalan	14427-013---	s ə m - e n - - -
Walloon	14727-64-14--	s i m - ã - s - -
Friulian	14027-32134432-	s e m - ε n ŷ ε -
Romanian	14427-4513444-	s ə m - i n ŷ ə -
[Seed]		
Latin	13452131527	g r a: n u m
French	1373213--	g ʁ ε n - -
Spanish	12928136-	g r a n o -
Italian	13428136-	g r a n o -
PortugueseBrazil	12963---	g r ẽw̃ - -
Portuguese	12963---	g r ẽw̃ - -
Catalan	12928---	g r a - - -
Walloon	134713--	g r i n - -
Friulian	1342813--	g r a n - -
Romanian	13470---	g r iw - -
[Leaf]		
Latin	25-633728	f - o l i a
French	25-3112--	f - œ j - -
Spanish	--635-28	- - o x - a
Italian	25-9363628	f - ɔ ʎ ʎ a
PortugueseBrazil	25-636-30	f - o ʎ - ɐ
Portuguese	25-636-30	f - o ʎ - ɐ
Catalan	25-1536-4	f - u ʎ - ə
Walloon	25-16---	f - ɔ j - -
Friulian	2580--0	f w e - - e
Romanian	25-40-120	f - ɔ a - j e
[Leaf]		
Latin	253461324028	f r o n d e a
French		
Spanish		

Appendix 3 - Character File

Italian	253461371-28	f r o n d z - a
PortugueseBrazil	252960-14-30	f r õ - s - e
Portuguese	252960-14-30	f r õ - s - e
Catalan		
Walloon		
Friulian		
Romanian	2529151348-4	f r u n z - ə
[Root]		
Latin	-3452243850027	- r a : d i : k e m
French		
Spanish	-3428-757--	- r a - i θ - -
Italian		
PortugueseBrazil	-3728-714--	- ʁ a - i s - -
Portuguese	-3730-717--	- ʁ e - i ʃ - -
Catalan	4343233----	ə r ε l - - - -
Walloon		
Friulian		
Romanian		
[Root]		
Latin	34522438500	r a : d i : k e
French	3728247--	ʁ a d i - -
Spanish		
Italian	34282438440	r a d i : ʃ e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Root]		
Latin	3452243850381328	r a : d i : k i : n a
French	3728--14713-	ʁ a - - s i n -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	5432--143213-	r ε - - s ε n -
Friulian		
Romanian	344244447134	r ə d ə ʃ i n ə
[BarkOfATree]		
Latin	5063421750027	k o r t i k e m
French		
Spanish		
Italian	50634217440-	k o r t i ʃ e -
PortugueseBrazil	50937447147-	k ɔ ʁ ʃ i s i -
Portuguese	509292171445-	k ɔ r t i s i -
Catalan		
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[BarkOfATree]

Latin	50634217-50028	k o r t i - k e a
French		
Spanish	50629210-57-28	k o r t e - θ - a
Italian	50634210214428-	k o r t e t ʃ a -
PortugueseBrazil	50637447-1430-	k o ʁ ʃ i - s ɐ -
Portuguese	501529217-1430-	k u r t i - s ɐ -
Catalan		
Walloon		
Friulian		
Romanian		

[BarkOfATree]

Latin	-1450-63421028	- s k - o r t e a
French	0-50-63714--	e - k - o ʁ s - -
Spanish		
Italian	-1450-93451-28	- s k - ɔ r t s - a
PortugueseBrazil		
Portuguese		
Catalan	41450-93414-4	ə s k - ɔ r s - ə
Walloon	-145082814---	- s k w a s - - -
Friulian	-14508283451-0	- s k w a r t s - e
Romanian	-1450-402951-4	- s k - ɔ a r t s - ə

[Flower]

Latin	2533234027	f l o : r e m
French	25333137--	f l œ ʁ - -
Spanish	2533629--	f l o r - -
Italian	25122290-	f j o : r e -
PortugueseBrazil	2533637--	f l o ʁ - -
Portuguese	2533629--	f l o r - -
Catalan	25339---	f l ɔ - - -
Walloon	25337237--	f l ø : ʁ - -
Friulian	2533234--	f l o : r - -
Romanian	253340290-	f l ɔ a r e -

[Grass]

Latin	-610342028	- h e r b a
French	--323720-	- - ε ʁ b -
Spanish	5-0292028	j - e r b a
Italian	--32342028	- - ε r b a
PortugueseBrazil	--0371930	- - e ʁ v ɐ
Portuguese	--32291930	- - ε r v ɐ
Catalan	--034204	- - e r b ə
Walloon	12-32-47-	j - ε - p -
Friulian	12-2834200	j - a r b e
Romanian	12-2829204	j - a r b ə

[Grass]

Latin	1345227013	g r a : m e n
French	13728273213	g ʁ a m ε n
Spanish	129282728-	g r a m a -
Italian		
PortugueseBrazil	129432730-	g r ẽ m ɐ -
Portuguese	129302730-	g r ɐ m ɐ -
Catalan	1292827--	g r a m - -

Appendix 3 - Character File

Walloon
Friulian
Romanian

[Rope]

Latin	252213-027	f u: n - e m
French		
Spanish		
Italian	251513-0-	f u n - e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	251513120-	f u n j e -

[Rope]

Latin	3401421027	r e s t e m
French		
Spanish	297142128-	r i s t a -
Italian	3432142128-	r e s t a -
PortugueseBrazil	373217447-	ʁ e ʃ tʃ i -
Portuguese	370172145-	ʁ e ʃ t i -
Catalan		
Walloon		
Friulian		
Romanian		

[Skin]

Latin		
French	50828---13-	k w a - - - n -
Spanish		
Italian	50-6210131328	k - o t e n n a
PortugueseBrazil	50-6107--30	k - o dʒ i - - ɐ
Portuguese	50-6247--30	k - o d i - - ɐ
Catalan	50-6--13134	k - o - - n n ə
Walloon		
Friulian		
Romanian		

[Skin]

Latin	47-03333027	p - e l l e m
French	47-6----	p - o - - -
Spanish	47120-33--	p j e - l - -
Italian	47-033330-	p - e l l e -
PortugueseBrazil	47-32-337-	p - ɛ - l i -
Portuguese	47-0-3345-	p - e - l i -
Catalan	47-0-36--	p - e - ʎ - -
Walloon	471228----	p j a - - - -
Friulian	471232-33--	p j ɛ - l - -
Romanian	47120-330-	p j e - l e -

[Meat]

Latin	50283413027	k a r n e m
French	173237---	ʃ ɛ ʁ - - -
Spanish	502829130-	k a r n e -

Appendix 3 - Character File

Italian	502834130-	k a r n e -
PortugueseBrazil	502837137-	k a ʁ n i -
Portuguese	5028291345-	k a r n i -
Catalan	50283413--	k a r n - -
Walloon	4473----	ʃ ɔ: - - - -
Friulian	655234---	c a: r - - -
Romanian	502829130-	k a r n e -
[Meat]		
Latin	8388-0132428	w i: w - e n d a
French	1912--41-24-	v j - - ã - d -
Spanish	20720120132428	b i b j e n d a
Italian	19719-28132428	v i v - a n d a
PortugueseBrazil	19719-64-2428	v i v - ê - d a
Portuguese	19719-64-2430	v i v - ě - d ɐ
Catalan		
Walloon		
Friulian		
Romanian		
[Blood]		
Latin	14281374-713027	s a n g ^w - i n e m
French	1441-----	s ã - - - - -
Spanish	1428751--290-	s a ŋ g - - r e -
Italian	142813180---	s a n g w e - - -
PortugueseBrazil	1443-1-7---	s ĩ - g - i - - -
Portuguese	1443-1-45---	s ĩ - g - i - - -
Catalan	142875-----	s a ŋ - - - - -
Walloon	1476-1-----	s ô: - g - - - -
Friulian	14287550-----	s a ŋ k - - - -
Romanian	14451310-0---	s i n ɕ - e - - -
[Bone]		
Latin	--614141527	- - o s s u m
French	--9-14--	- - ɔ - s - -
Spanish	-80-146-	- w e - s o -
Italian	--914146-	- - ɔ s s o -
PortugueseBrazil	--6-1415-	- - o - s u -
Portuguese	--6-1415-	- - o - s u -
Catalan	--9-14--	- - ɔ - s - -
Walloon	--9-17--	- - ɔ - ʃ - -
Friulian	19832-14--	v w ɛ - s - -
Romanian	--6-14--	- - o - s - -
[FatNoun]		
Latin	2824047027	a d e p e m
French		
Spanish		
Italian	28247470-	a d i p e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[FatNoun]

Latin		
French	1373214-	g ʁ ε s -
Spanish	129281428	g r a s a
Italian		
PortugueseBrazil	129281730	g r a ʃ ε
Portuguese	129281730	g r a ʃ ε
Catalan	129017-	g r e ʃ -
Walloon	50547377-	k ʁ ɔ: ç -
Friulian		
Romanian		

[Egg]

Latin	-281527	- o: w u m
French	-3125--	- œ f - -
Spanish	80206-	w e b o -
Italian	89196-	w ɔ v o -
PortugueseBrazil	-61915-	- o v u -
Portuguese	-61915-	- o v u -
Catalan	-98--	- ɔ w - -
Walloon	-22---	- u: - - -
Friulian	-2225--	- u: f - -
Romanian	-68--	- o w - -

[Horn]

Latin	50-6341322	k - o r n u:
French	50-93713-	k - ɔ ʁ n -
Spanish	508029136	k w e r n o
Italian	50-934136	k - ɔ r n o
PortugueseBrazil	50-6371315	k - o ʁ n u
Portuguese	50-6291315	k - o r n u
Catalan	50-93413-	k - ɔ r n -
Walloon	50832-13-	k w ε - n -
Friulian	5085234--	k w a: r - -
Romanian	50-63413-	k - o r n -

[Tail]

Latin	50782428	k aʊ d a
French	5079--	k ø - -
Spanish	5063328	k o l a
Italian	5062428	k o d a
PortugueseBrazil	50782430	k aʊ d ε
Portuguese	50782430	k aʊ d ε
Catalan	5015-28	k u - a
Walloon	5098-	k ɔ w -
Friulian	5092432	k ɔ d ε
Romanian	6540244	c ɔad ə

[Feather]

Latin	4733222728	p l u: m a
French	47332327-	p l y m -
Spanish	4733152728	p l u m a
Italian	4712152728	p j u m a
PortugueseBrazil		
Portuguese		
Catalan	47336274	p l o m ə

Appendix 3 - Character File

Walloon	4733927-	p l ɔ m -
Friulian	4733152732	p l u m ε
Romanian		
[Feather]		
Latin	470131328	p e n n a
French	4732-13-	p ε - n -
Spanish	470-3928	p e - ɲ a
Italian	470131328	p e n n a
PortugueseBrazil	470-1330	p e - n e
Portuguese	470-1330	p e - n e
Catalan	4732-394	p ε - ɲ ə
Walloon	470-13-	p e - n -
Friulian	4732-130	p ε - n e
Romanian	4728-134	p a - n ə
[Hair]		
Latin	47-7331514	p - i l u s
French	4782833--	p w a l - -
Spanish	47-0336-	p - e l o -
Italian	47-0336-	p - e l o -
PortugueseBrazil	47-03315-	p - e l u -
Portuguese	47-453315-	p - i l u -
Catalan	47-3233--	p - ε l - -
Walloon		
Friulian	47-2633--	p - e: l - -
Romanian	47-429--	p - ə r - -
[Hair]		
Latin	502847733331514	k a p i l l u s
French	1741979----	f ə v ø - - - -
Spanish	5028200-56-	k a b e - j o -
Italian	502847033336-	k a p e l l o -
PortugueseBrazil	5028200-3315-	k a b e - l u -
Portuguese	5030670-3315-	k e β e - l u -
Catalan	5042032-36--	k ə b ε - λ - -
Walloon	4471912--28-	ʃ i v j - - a -
Friulian	65281958----	c a v e j - - - -
Romanian		
[Head]		
Latin	5028477-21728	k a p i - t i a
French	1741932----	f ə v ε - - - -
Spanish	5028670-57-28	k a β e - θ - a
Italian	502819021211428	k a v e t t s a
PortugueseBrazil	5028200-14-30	k a b e - s - e
Portuguese	5030670-14-30	k e β e - s - e
Catalan	502847-----	k a p - - - - -
Walloon		
Friulian	655225-----	c a: f - - - - -
Romanian	502847-----	k a p - - - - -
[Head]		
Latin	210142128	t e s t a
French	2132-21-	t ε - t -
Spanish		

Appendix 3 - Character File

Italian	2132142128	t ε s t a
PortugueseBrazil	2132142130	t ε s t ɐ
Portuguese	2132172130	t ε ʃ t ɐ
Catalan	21014214	t ɛ s t ə
Walloon	443214--	ʧ ε s - -
Friulian	213214210	t ε s t e
Romanian	518014214	ts ɛ a s t ə
[Ear]		
Latin	2347-503328	o: r i - k l a
French	63758----	o ʁ ej - - -
Spanish	6290-35-28	o r e - x - a
Italian	634050501228	o r e k k j a
PortugueseBrazil	6290--3630	o r e - - ʎ ɐ
Portuguese	62959--3630	o r ɐj - - ʎ ɐ
Catalan	152932--364	u r ε - - ʎ ə
Walloon	95455----	ɔ ʀ aj - - -
Friulian	6340--330	o r e - - l e
Romanian	15340-50-0	u r e - k - e
[Eye]		
Latin	-6-5015331514	- o - k u l u s
French	-31-12----	- œ - j - - -
Spanish	-6-35-6--	- o - x - o - -
Italian	-95050-126-	- ɔ k k - j o -
PortugueseBrazil	-6---3615-	- o - - - ʎ u -
Portuguese	-6---3615-	- o - - - ʎ u -
Catalan		
Walloon	-22-12----	- u: - j - - -
Friulian	196--337--	v o - - l i - -
Romanian	-6-81----	- o - kʲ - - -
[Nose]		
Latin	1352141514	n a: s u s
French	130---	n e - - -
Spanish	1328146-	n a s o -
Italian	1352146-	n a: s o -
PortugueseBrazil		
Portuguese		
Catalan	132814--	n a s - -
Walloon	130---	n e - - -
Friulian	135214--	n a: s - -
Romanian	132814--	n a s - -
[Nose]		
Latin		
French		
Spanish	132829757-	n a r i θ -
Italian	1328347440	n a r i ʧ e
PortugueseBrazil	132829714-	n a r i s -
Portuguese	133029717-	n ɐ r i ʃ -
Catalan	1352341114-	n a: r i s -
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[Mouth]

Latin	2015505028	b u k k a
French	2015-17-	b u - ʃ -
Spanish	206-5028	b o - k a
Italian	206505028	b o k k a
PortugueseBrazil	206-5030	b o - k ɐ
Portuguese	206-5030	b o - k ɐ
Catalan	206-504	b o - k ə
Walloon	20950--	b ɔ k - -
Friulian	209-6532	b ɔ - c ɛ
Romanian	2015-504	b u - k ə

[Mouth]

Latin	1153328	g u l a
French	13133-	g œ l -
Spanish	163328	g o l a
Italian	163328	g o l a
PortugueseBrazil		
Portuguese		
Catalan	16334	g o l ə
Walloon	17212-	g ø: j -
Friulian	19330	g ɔ l e
Romanian	115294	g u r ə

[Tooth]

Latin	24-01321027	d - e n t e m
French	24-41----	d - ã - - - -
Spanish	2412013210-	d j e n t e -
Italian	24-3213210-	d - ɛ n t e -
PortugueseBrazil	24-64-447-	d - ě - ʃ i -
Portuguese	24-64-2145-	d - ě - t i -
Catalan		
Walloon	24-64----	d - ě - - - -
Friulian	24-71321--	d - i n t - -
Romanian	24-713210-	d - i n t e -

[Fingernail]

Latin	15131-153328	u n g - u l a
French	60-1--33-	õ - g - - l -
Spanish	1539----28	u ɲ - - - - a
Italian	1513112--28	u n g j - - a
PortugueseBrazil	1539----30	u ɲ - - - - ɐ
Portuguese	1539----30	u ɲ - - - - ɐ
Catalan		
Walloon	60-1----	õ - g - - - -
Friulian	9751-153332	ɔ ŋ g - u l ɛ
Romanian	1513112--0	u n g j - - e

[Foot]

Latin	47-0-24027	p - e - d e m
French	47120----	p j e - - - -
Spanish	47120----	p j e - - - -
Italian	471256-240-	p j ɛ: - d e -
PortugueseBrazil	47-32----	p - ɛ - - - -
Portuguese	47-32----	p - ɛ - - - -
Catalan	47-328---	p - ɛ w - - -

Appendix 3 - Character File

Walloon	47-38----	p - i - - - -
Friulian	47-38-21--	p - i - t - -
Romanian	4770-48--	p i e - z - -
[Leg]		
Latin	128272028	g a m b a
French	341-20-	ʒ ã - b -
Spanish	128272028	g a m b a
Italian	128272028	g a m b a
PortugueseBrazil		
Portuguese		
Catalan	502827204	k a m b ə
Walloon	1082-47-	ɕ ã - p -
Friulian	832827200	ʃ a m b e
Romanian	12827204	g a m b ə
[Leg]		
Latin	47-0341328	p - e r n a
French		
Spanish	47120291328	p j e r n a
Italian	47-3234136	p - ε r n o
PortugueseBrazil	47-32371330	p - ε ʁ n ə
Portuguese	47-32291330	p - ε r n ə
Catalan	47-3234134	p - ε r n ə
Walloon		
Friulian		
Romanian		
[Leg]		
Latin	470-2176331514	p e - t i o l u s
French		
Spanish	470-5776336-	p e - θ i o l o -
Italian	4772144-9336-	p i t ʃ - ɔ l o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	4732-50-633--	p ε - k - o l - -
Romanian	477-4412634--	p i - ʃ j o r - -
[Knee]		
Latin	1-0137-5015331527	g - e n i - k u l u m
French	3-41315-----	ʒ - ə n u - - - - -
Spanish	--7136-356---	- - i n o - x o - - -
Italian	10-71395050-126-	ɕ - i n ɔ k k - j o -
PortugueseBrazil	3150-----3615-	ʒ u e - - - - - ʎ u -
Portuguese	3830-----3615-	ʒ w ə - - - - - ʎ u -
Catalan	3-4136---36--	ʒ - ə n o - - - ʎ - -
Walloon	10-7139-----	ɕ - i n ɔ - - - - -
Friulian	10-0136---337-	ɕ - e n o - - - l i -
Romanian	10-013151381----	ɕ - e n u n k l - - - -
[Hand]		
Latin	2728131527	m a n u m
French	2764---	m ẽ - - -
Spanish	2728136-	m a n o -

Appendix 3 - Character File

Italian	2752136-	m a: n o -
PortugueseBrazil	2763---	m ĕwĩ - -
Portuguese	2763---	m ĕwĩ - -
Catalan		
Walloon	2764---	m ě - - -
Friulian	272875--	m a ŋ - -
Romanian	2745134-	m i n ə -
[Wing]		
Latin	523328	a: l a
French	033-	e l -
Spanish	283328	a l a
Italian	283328	a l a
PortugueseBrazil	28--	a - -
Portuguese	28--	a - -
Catalan	28334	a l ə
Walloon	033-	e l -
Friulian	28330	a l e
Romanian		
[Belly]		
Latin	8-0132134027	w - e n t r e m
French	19-41-2137--	v - ã - t ʁ - -
Spanish	201201321290-	b j e n t r e -
Italian		
PortugueseBrazil		
Portuguese		
Catalan	20-01321294-	b - e n t r ə -
Walloon	19-62-21---	v - ě - t - - -
Friulian	19-71321347-	v - i n t r i -
Romanian	19-71321340-	v - i n t r e -
[Belly]		
Latin	47281321750027	p a n t i k e m
French	4741-14----	p ã - s - - - -
Spanish	47281357---28	p a n θ - - - a
Italian	47281344--28-	p a n ʃ - - a -
PortugueseBrazil	4743-14--30-	p ě - s - - e -
Portuguese	4743-14--30-	p ě - s - - e -
Catalan	47283917--4-	p a ɲ ʃ - - ə -
Walloon	4782-14----	p ã - s - - - -
Friulian	47281351--0-	p a n t s - - e -
Romanian	474513210440-	p i n t e ʃ e -
[Guts]		
Latin	713210345213028	i n t e r a: n e a
French	41-21-3728-12-	ã - t - ʁ a - j -
Spanish	01321-292839-28	e n t - r a ɲ - a
Italian		
PortugueseBrazil	42-21-294339-30	ĩ - t - r ě ɲ - e
Portuguese	64-21-293039-30	ẽ - t - r e ɲ - e
Catalan	41321-292839-4	ə n t - r a ɲ - ə
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[Neck]

Latin	50-633331527	k - o l l u m
French	50-15----	k - u - - - -
Spanish	5080-56-	k w e - j o -
Italian	50-633336-	k - o l l o -
PortugueseBrazil	50-9-3315-	k - ɔ - l u -
Portuguese	50-9-3315-	k - ɔ - l u -
Catalan	50-9-36--	k - ɔ - ʎ - -
Walloon		
Friulian	50832-33--	k w ε - l - -
Romanian		

[Back]

Latin	24-634141527	d - o r s u m
French	24-6----	d - o - - - -
Spanish		
Italian	24-914146-	d - ɔ s s o -
PortugueseBrazil		
Portuguese		
Catalan	24-6-14--	d - o - s - -
Walloon	24-9----	d - ɔ - - - -
Friulian	2480-14--	d w e - s - -
Romanian	24-6----	d - o - - - -

[Back]

Latin	-14472821153328	- s p a t u l a
French	0-476--33-	e - p o - - l -
Spanish	014472833-2428	e s p a l - d a
Italian	-14472833-3328	- s p a l - l a
PortugueseBrazil	7174728248-30	i ʃ p a d w - ɐ
Portuguese	7174728248-30	i ʃ p a d w - ɐ
Catalan	414472836-364	ə s p a ʎ - ʎ ə
Walloon	-144728--33-	- s p a - - l -
Friulian	-144728--3332	- s p a - - l ε
Romanian	-14472821--0	- s p a t - - e

[Breast]

Latin	147131514	s i n u s
French	1464---	s ē - - -
Spanish	140136-	s e n o -
Italian	140136-	s e n o -
PortugueseBrazil	1458-15-	s ej - u -
Portuguese	1459-15-	s ej - u -
Catalan	147---	s i - - -
Walloon		
Friulian	14013--	s e n - -
Romanian	142813--	s a n - -

[Breast]

Latin	47-050211514	p - e k t u s
French	47-7----	p - i - - - -
Spanish	47-0-446-	p - e - ʃ o -
Italian	47-3221216-	p - ε t t o -
PortugueseBrazil	47-58-2115-	p - ej - t u -
Portuguese	47-59-2115-	p - ej - t u -
Catalan	47-7-21--	p - i - t - -

Appendix 3 - Character File

Walloon		
Friulian	47-32-21--	p - ε - t - -
Romanian	471204721--	p j e p t - -
[Heart]		
Latin	50-634-	k - o r -
French	50-3137-	k - æ ʁ -
Spanish		
Italian	5089340	k w ɔ r e
PortugueseBrazil	50-937-	k - ɔ ʁ -
Portuguese	50-629-	k - o r -
Catalan	50-934-	k - ɔ r -
Walloon	50-2237-	k - u: ʁ -
Friulian	50-2234-	k - u: r -
Romanian		
[Heart]		
Latin	281372728	a n i m a
French	84--27-	a - - m -
Spanish	2833-2728	a l - m a
Italian	2833-2728	a l - m a
PortugueseBrazil	288-2730	a w - m e
Portuguese	2833-2730	a l - m e
Catalan		
Walloon	73--27-	ɔ: - - m -
Friulian	28137270	a n i m e
Romanian	7137274	i n i m ə
[Liver]		
Latin	25-385052211527	f - i: k a: t u m
French	25884-----	f w a - - - -
Spanish	--78528496-	- - i ɣ a ð o -
Italian	25-0128216-	f - e g a t o -
PortugueseBrazil	25-71302415-	f - i g e d u -
Portuguese	25-785304915-	f - i ɣ e ð u -
Catalan	25-0104---	f - e d ʒ ə - - -
Walloon	25-72--21--	f - ø: - - t - -
Friulian	25-7125221--	f - i j a: t - -
Romanian	25-7502821--	f - i k a t - -
[Sun]		
Latin	14233027	s o: l e m
French		
Spanish	14633--	s o l - -
Italian	146330-	s o l e -
PortugueseBrazil	1498--	s ɔ w - -
Portuguese	14968--	s ɔ l - -
Catalan	14933--	s ɔ l - -
Walloon	149339-	s ɔ l ɔ -
Friulian		
Romanian	1440290-	s ɔ a r e -
[Sun]		
Latin	1463375015331514	s o l i k u l u s
French	1493386-----	s ɔ l ɛ j - - - -
Spanish		

Appendix 3 - Character File

Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	146340--337-	s o r e - - l i -
Romanian		

[Moon]

Latin	33221328	l u : n a
French	332313-	l y n -
Spanish	33151328	l u n a
Italian	33151328	l u n a
PortugueseBrazil	3315-30	l u - e
Portuguese	3315-30	l u - e
Catalan	3615134	Á u n ə
Walloon	337913-	l ø n -
Friulian	3315130	l u n e
Romanian	3315134	l u n ə

[Star]

Latin	-1421-26333328	- s t - e : l l a
French	0-21828-33-	e - t w a - l -
Spanish	01421290-528	e s t r e - j a
Italian	-1421-03333328	- s t - e l l a
PortugueseBrazil	71421290-3330	i s t r e - l e
Portuguese	451721290-3330	i f t r e - l e
Catalan	41421-32-33-	ə s t - ε - l -
Walloon	-1421-72-33-	- s t - ø : - l -
Friulian	-1421-32-330	- s t - ε - l e
Romanian	-1421-80---	- s t - ɣ a - - -

[Water]

Latin	28-87-28	a - k ^w - a
French	6----	o - - - -
Spanish	28-85828	a - ɣ w a
Italian	285050828	a k k w a
PortugueseBrazil	28-1830	a - g w e
Portuguese	28-1830	a - g w e
Catalan	55-8584	aj- ɣ w ə
Walloon	56--8-	ε : - - w -
Friulian	28-1-0	a - g - e
Romanian	28-47-4	a - p - ə

[Rain]

Latin	473315-8728	p l u - w i a
French	473369--7-	p l ɥ - - i -
Spanish	5-15-201228	j - u - b j a
Italian	471262410-28	p j o d ɖ - a
PortugueseBrazil	17-15-19-30	f - u - v - e
Portuguese	17-15-19-30	f - u - v - e
Catalan	473315-3-4	p l u - ʒ - ə
Walloon	473322-37--	p l u : - ɣ - -
Friulian	47336--120	p l o - - j e
Romanian	473340--120	p l ɣ a - - j e

Appendix 3 - Character File

[River]

Latin	25332227013	f l u : m e n
French		
Spanish		
Italian	251215270-	f j u m e -
PortugueseBrazil	253315277-	f l u m i -
Portuguese	2533152745-	f l u m i -
Catalan		
Walloon		
Friulian	25331527--	f l u m - -
Romanian		

[River]

Latin	343881514	r i : w u s
French	3723---	ʁ y - - -
Spanish	347-6-	r i - o -
Italian	347-6-	r i - o -
PortugueseBrazil	377-8-	ʁ i - w -
Portuguese	377-15-	ʁ i - u -
Catalan	347-8-	r i - w -
Walloon		
Friulian		
Romanian	3445-8-	r i - w -

[River]

Latin	343847-5234728	r i : p - a : r i a
French	3771912037--	ʁ i v j e ʁ - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	3471938-37--	r i v i : - ʁ - -
Friulian		
Romanian		

[Lake]

Latin	3328501527	l a k u m
French	332850--	l a k - -
Spanish	332816-	l a g o -
Italian	332816-	l a g o -
PortugueseBrazil	3328115-	l a g u -
Portuguese	33288515-	l a y u -
Catalan	362850--	l a k - -
Walloon	332850--	l a k - -
Friulian	335221--	l a : t - -
Romanian	332850--	l a k - -

[Sea]

Latin	2728340	m a r e
French	273237-	m ε ʁ -
Spanish	272829-	m a r -
Italian	2728340	m a r e
PortugueseBrazil	272837-	m a ʁ -
Portuguese	272829-	m a r -
Catalan	272834-	m a r -

Appendix 3 - Character File

Walloon	27037-	m e ɣ -
Friulian	275234-	m a: r -
Romanian	2728340	m a r e
[Salt]		
Latin	145233027	s a: l e m
French	143233--	s ɛ l - -
Spanish	142833--	s a l - -
Italian	1428330-	s a l e -
PortugueseBrazil	14288--	s a w - -
Portuguese	142833--	s a l - -
Catalan	142833--	s a l - -
Walloon	140---	s e - - -
Friulian	145233--	s a: l - -
Romanian	1428340-	s a r e -
[Stone]		
Latin	142850141527	s a k s u m
French		
Spanish		
Italian	142814146-	s a s s o -
PortugueseBrazil	1458-1715-	s ej - ʃ u -
Portuguese	1459-1715-	s øj - ʃ u -
Catalan		
Walloon		
Friulian		
Romanian		
[Stone]		
Latin	47-0213428	p - e t r a
French	47120-37-	p j e - ɣ -
Spanish	47120492928	p j e ð r a
Italian	471226213428	p j e: t r a
PortugueseBrazil	47-0242930	p - e d r ɐ
Portuguese	47-32492930	p - ɛ ð r ɐ
Catalan	47-049294	p - e ð r ə
Walloon	47-38-37-	p - i: - ɣ -
Friulian	471226-340	p j e: - r e
Romanian	47122821294	p j a t r ə
[Stone]		
Latin	332847724027	l a p i d e m
French		
Spanish	332815-240-	l a u - d e -
Italian	3328477240-	l a p i d e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Sand]		
Latin	612834261384	h a r e: n a
French		
Spanish	-282901328	- a r e n a

Appendix 3 - Character File

Italian		
PortugueseBrazil	-282958-30	- a r e j - ɐ
Portuguese	-302959-30	- ɐ r ɐ j - ɐ
Catalan	-4290134	- ə r e n ə
Walloon		
Friulian		
Romanian	-28347134	- a r i n ə
[Sand]		
Latin	14282015331527	s a b u l u m
French	142820-33--	s a b - l - -
Spanish		
Italian		
PortugueseBrazil	145567-2915-	s a j β - r u -
Portuguese	145567-2915-	s a j β - r u -
Catalan	146--344-	s o - - r ə -
Walloon	14219-1260-	s o: v - j õ -
Friulian	1428192833913	s a v a l ɔ n
Romanian		
[Sand]		
Latin	1428-20153328	s a - b u l a
French		
Spanish		
Italian	14282020-1228	s a b b - j a
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Dust]		
Latin	4715338034027	p u l w e r e m
French	471524--37--	p u d - - ʁ - -
Spanish		
Italian	47633190340-	p o l v e r e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	47933192834--	p ɔ l v a r - -
Romanian	471533200340-	p u l b e r e -
[Dust]		
Latin	47153381514	p u l w u s
French		
Spanish	47633206-	p o l b o -
Italian		
PortugueseBrazil	479----	p ɔ - - - -
Portuguese	479----	p ɔ - - - -
Catalan	47633--14	p o l - - s
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[Earth]

Latin	21-0343428	t - e r r a
French	21-0-37-	t - e - ʁ -
Spanish	21120-3428	t j e - r a
Italian	21-32343428	t - ε r r a
PortugueseBrazil	21-0-3730	t - e - ʁ ɐ
Portuguese	21-32-3730	t - ε - ʁ ɐ
Catalan	21-32-344	t - ε - r ə
Walloon	21-56-37-	t - ɛ - ʁ -
Friulian	211232-340	t j ε - r e
Romanian	51-28-344	ts - a - r ə

[Cloud]

Latin	1322202614	n u: b e: s
French	1323---	n y - - -
Spanish	1315200-	n u b e -
Italian	1315200-	n u b e -
PortugueseBrazil	13151946-	n u v ēj -
Portuguese	13151953-	n u v ẽj -
Catalan		
Walloon		
Friulian		
Romanian		

[Cloud]

Latin	1322207331514	n u: b i l u s
French		
Spanish	131520-336-	n u b - l o -
Italian	13151963328-	n u v o l a -
PortugueseBrazil		
Portuguese		
Catalan	131519633--	n u v o l - -
Walloon		
Friulian	1322--33--	n u: - - l - -
Romanian	136--34--	n o - - r - -

[Fog]

Latin	505233381713027	k a: l i: g i n e m
French		
Spanish	5028337--1328-	k a l i - - n a -
Italian	5028337107130-	k a l i dʒi n e -
PortugueseBrazil	5028337346---	k a l i ʒ ẽj - - -
Portuguese	5030337353---	k ɐ l i ʒ ẽj - - -
Catalan		
Walloon		
Friulian		
Romanian		

[Fog]

Latin	13-0-20153328	n - e - b u l a
French	13129---3323	n j ɔ - - - l y
Spanish	13120-20-3328	n j e - b - l a
Italian	13-02020-1228	n - e b b - j a
PortugueseBrazil	13-32-198-30	n - ε - v w - ɐ
Portuguese	13-32-198-30	n - ε - v w - ɐ
Catalan	13-0--8334	n - e - - w l ə

Appendix 3 - Character File

Walloon		
Friulian		
Romanian	130115344--	n e g u r ə - -
[Fog]		
Latin	2101326203455	t e n e: b r a j
French		
Spanish		
Italian	215613020340	t ɛ: n e b r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Fog]		
Latin	21-013-2620345214	t - e n - e: b r a: s
French	21-013-322037--	t - e n - ɛ b ʁ - -
Spanish	21-71312020332814	t - i n j e b l a s
Italian	21-5613-020340-	t - ɛ: n - e b r e -
PortugueseBrazil	2129---3219-3014	t r - - - ɛ v - ɐ s
Portuguese	2129---3219-3017	t r - - - ɛ v - ɐ f
Catalan	21-413-02029414	t - ə n - e b r ə s
Walloon		
Friulian		
Romanian		
[Fog]		
Latin	252227522128	f u: m a: t a
French	2523270--	f y m e - -
Spanish	251527282128	f u m a t a
Italian	251527522128	f u m a: t a
PortugueseBrazil	251527281430	f u m a s ɐ
Portuguese	251527281430	f u m a s ɐ
Catalan		
Walloon		
Friulian	25152728210	f u m a t e
Romanian		
[Fog]		
Latin	505550728	k a j k i a
French		
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	448044-4	ʦ ɛ a ʦ - ə
[Sky]		
Latin	50-55331527	k - a j l u m
French	14123233--	s j ɛ l - -
Spanish	57120336-	θ j e l o -

Appendix 3 - Character File

Italian	44-32336-	ʃ - ε l o -
PortugueseBrazil	14-328--	s - ε w - -
Portuguese	14-328--	s - ε w - -
Catalan	14-3233--	s - ε l - -
Walloon	14-3837--	s - i: ʁ - -
Friulian	44-3833--	ʃ - i: l - -
Romanian	44-029--	ʃ - e r - -
[Wind]		
Latin	8-013211527	w - e n t u m
French	19-41----	v - ã - - - -
Spanish	2012013216-	b j e n t o -
Italian	19-3213216-	v - ε n t o -
PortugueseBrazil	19-64-2115-	v - ě - t u -
Portuguese	19-64-2115-	v - ě - t u -
Catalan	20-013---	b - e n - - -
Walloon	19-64----	v - ě - - - -
Friulian	19-71321--	v - i n t - -
Romanian	19-451321--	v - i n t - -
[Snow]		
Latin	13-78027	n - i w e m
French		
Spanish	13120200-	n j e b e -
Italian	13-0190-	n - e v e -
PortugueseBrazil	13-32197-	n - ε v i -
Portuguese	13-321945-	n - ε v i -
Catalan	13-08--	n - e w - -
Walloon	13-3825--	n - i: f - -
Friulian	13-2625--	n - e: f - -
Romanian	13-80---	n - ɛa - - -
[Ice]		
Latin	103322	g e l u:
French	33233-	ʒ ε l -
Spanish	50336	j e l o
Italian	1032336	ɖ ε l o
PortugueseBrazil		
Portuguese		
Catalan	33268-	ʒ ε ʎ -
Walloon		
Friulian		
Romanian	10034-	ɖ e r -
[Ice]		
Latin		
French	13328-14-	g l a - s -
Spanish		
Italian	11228214428	g j a t ʃ a
PortugueseBrazil		
Portuguese		
Catalan	13328-14-	g l a - s -
Walloon	13332-14-	g l ε - s -
Friulian	13328-440	g l a - ʃ e
Romanian	1-80-514	g - ɛa- ts ə

Appendix 3 - Character File

[Smoke]

Latin	2522271514	f u: m u s
French		
Spanish	-15276-	- u m o -
Italian	2515276-	f u m o -
PortugueseBrazil	25152715-	f u m u -
Portuguese	25152715-	f u m u -
Catalan	251527--	f u m - -
Walloon		
Friulian	251527--	f u m - -
Romanian	251527--	f u m - -

[Fire]

Latin	25-6501527	f - o k u m
French	25-79---	f - ø - - -
Spanish	258016-	f w e g o -
Italian	2589506-	f w ɔ k o -
PortugueseBrazil	25-6115-	f - o g u -
Portuguese	25-68515-	f - o y u -
Catalan	25-950--	f - ɔ k - -
Walloon	25-72---	f - ø: - - -
Friulian	25-2250--	f - u: k - -
Romanian	25-650--	f - o k - -

[Ash]

Latin	507130-34027	k i n e - r e m
French	1441--2437--	s ă - - d ʁ - -
Spanish		
Italian	440130-340-	tʃ e n e - r e -
PortugueseBrazil		
Portuguese		
Catalan	143213-24344-	s ε n - d r ə -
Walloon	1488--24---	s ẽ: - - d - - -
Friulian		
Romanian		

[Ash]

Latin		
French		
Spanish	5701375728	θ e n i θ a
Italian		
PortugueseBrazil	1442--4830	s ĩ - - z ɐ
Portuguese	1442--4830	s ĩ - - z ɐ
Catalan		
Walloon		
Friulian	4471374832	tʃ i n i z ε
Romanian	4401315174	tʃ e n u ʃ ə

[Road]

Latin	8728	w i a
French	19828	v w a
Spanish	20728	b i a
Italian	19728	v i a
PortugueseBrazil	19730	v i ɐ
Portuguese	19730	v i ɐ
Catalan	2074	b i ə

Appendix 3 - Character File

Walloon
Friulian
Romanian

[Road]

Latin	-142134522128	- s t r a : t a
French		
Spanish	0142129282428	e s t r a d a
Italian	-142134282428	- s t r a d a
PortugueseBrazil	7142129282430	i s t r a d e
Portuguese	7172129284930	i f t r a ð e
Catalan		
Walloon		
Friulian		
Romanian		

[Road]

Latin	5028272738131527	k a m m i : n u m
French	174-2762---	f ə - m ê - - -
Spanish	5028-277136-	k a - m i n o -
Italian	502827277136-	k a m m i n o -
PortugueseBrazil	5028-27423915-	k a - m ĩ ɲ u -
Portuguese	5030-2773915-	k e - m i ɲ u -
Catalan	504-277---	k ə - m i - - -
Walloon		
Friulian		
Romanian		

[Mountain]

Latin	2761321027	m o n t e m
French	2789----	m ɔ̃ - - - -
Spanish	27613210-	m o n t e -
Italian	27613210-	m o n t e -
PortugueseBrazil	2760-447-	m õ - ʃ i -
Portuguese	2760-2145-	m õ - t i -
Catalan	271513---	m u n - - -
Walloon		
Friulian	2791321--	m ɔ̃ n t - -
Romanian	2715132132-	m u n t ɛ -

[Mountain]

Latin	276132152-13028	m o n t a : - n e a
French	2760-2128-39--	m õ - t a - ɲ - -
Spanish	276132128-39-28	m o n t a - ɲ - a
Italian	2761321283939-28	m o n t a ɲ ɲ - a
PortugueseBrazil	2760-2143-39-30	m õ - t ê - ɲ - e
Portuguese	2760-2130-39-30	m õ - t e - ɲ - e
Catalan	2715132128-39-4	m u n t a - ɲ - ə
Walloon	2760-2128-39--	m õ - t a - ɲ - -
Friulian	279132128-390-	m ɔ̃ n t a - ɲ e -
Romanian		

[Night]

Latin	13-66521027	n - o c t e m
French	13697----	n ɥ i - - - -
Spanish	13-6-440-	n - o - ʃ e -

Appendix 3 - Character File

Italian	13-921210-	n - ɔ t t e -
PortugueseBrazil	13-18-2145-	n - o j - t i -
Portuguese	13-18-2145-	n - o j - t i -
Catalan	13-7-21--	n - i - t - -
Walloon	13-23-21--	n - y - t - -
Friulian	39-9-21--	ɲ - ɔ - t - -
Romanian	13-4047210-	n - ɔ a p t e -
[Day]		
Latin	2472614	d i e s
French		
Spanish	24728-	d i a -
Italian	247--	d i - -
PortugueseBrazil	24730-	d i ɐ -
Portuguese	24730-	d i ɐ -
Catalan	2474-	d i ə -
Walloon	10-22-	ɖʒ - u: -
Friulian	247--	d i - -
Romanian	487--	z i - -
[Day]		
Latin	2471534131527	d i u r n u m
French	3-1537---	ʒ - u ʁ - - -
Spanish	24121529136-	d j u r n o -
Italian	10-634136-	ɖʒ - o r n o -
PortugueseBrazil		
Portuguese		
Catalan	3-62913--	ʒ - o r n - -
Walloon	10-22----	ɖʒ - u: - - - -
Friulian		
Romanian		
[Day]		
Latin		
French		
Spanish		
Italian		
PortugueseBrazil	39371328	ʒ ɔ ʁ n a
Portuguese	39371328	ʒ ɔ ʁ n a
Catalan		
Walloon		
Friulian		
Romanian		
[Day]		
Latin	247153413522128	d i u r n a: t a
French	3-1537130--	ʒ - u ʁ n e - -
Spanish	35-62913282428	x - o r n a d a
Italian	10-63413282128	ɖʒ - o r n a t a
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	71-6341328240	ɖʒ - o r n a d e
Romanian		

Appendix 3 - Character File

[Year]		
Latin	2813131527	a n n u m
French	41----	ã - - - -
Spanish	28-396-	a - ɲ o -
Italian	2813136-	a n n o -
PortugueseBrazil	30-1315-	ẽ - n u -
Portuguese	30-1315-	ẽ - n u -
Catalan	28-39--	a - ɲ - -
Walloon	41----	ã - - - -
Friulian	28-75--	a - ɲ - -
Romanian	2813---	a n - - -
[Name]		
Latin	13227013	n o: m e n
French	1389---	n ã - - -
Spanish		
Italian	132270-	n o: m e -
PortugueseBrazil	136277-	n o m i -
Portuguese	1362745-	n o m i -
Catalan	13927--	n ɔ m - -
Walloon	1360---	n ò - - -
Friulian	13975--	n ɔ ɲ - -
Romanian	1315270-	n u m e -
[Name]		
Latin	13227713-027	n o: m i n - e m
French		
Spanish	13627-20290-	n o m - b r e -
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Tongue]		
Latin	3371374-28	l i n g ^w - a
French	3341-1--	l ã - g - -
Spanish	330751828	l e ɲ g w a
Italian	337131828	l i n g w a
PortugueseBrazil	3342-1830	l ã - g w ẽ
Portuguese	3342-1830	l ã - g w ẽ
Catalan		
Walloon	3390----	l ẽy- - - -
Friulian	3332131-32	l ɛ n g - ɛ
Romanian	3372720-4	l i m b - ə
[ToDrink]		
Latin	20-7200340	b - i b e r e
French	20884--37-	b w a - - ɣ -
Spanish	20-020029-	b - e b e r -
Italian	20-0--290	b - e - - r e
PortugueseBrazil	20-020037-	b - e b e ɣ -
Portuguese	20-4567029-	b - i β e r -
Catalan	20-328-294	b - ɛ w - r ə

Appendix 3 - Character File

Walloon	2072--37--	b ø: - - ʁ - -
Friulian	20-0197--	b - e v i - -
Romanian	20-80----	b - ɛa - - -
[ToEat]		
Latin	506270240340	k o m e d e r e
French		
Spanish	506270--29-	k o m e - - r -
Italian		
PortugueseBrazil	506270----	k o m e - - - -
Portuguese	501527--029-	k u m - - e r -
Catalan		
Walloon		
Friulian		
Romanian		
[ToEat]		
Latin	27281324155052340	m a n d u k a: r e
French	2741-3--0--	m ā - ʒ - - e - -
Spanish	2728132415502829-	m a n d u k a r -
Italian	27281310--28290	m a n d ʒ - - a r e
PortugueseBrazil	2743-3--2837-	m ĩ - ʒ - - a ʁ -
Portuguese	2743-3--2829-	m ĩ - ʒ - - a r -
Catalan	274393--28--	m ə ɲ ʒ - - a - -
Walloon	272839---38--	m a ɲ - - - i: - -
Friulian	27287583--52--	m a ɲ ʃ - - a: - -
Romanian	274513--5028--	m i n - - k a - -
[ToBite]		
Latin	27-6342426340	m - o r d e: r e
French	27-63724-37-	m - o ʁ d - ʁ -
Spanish	27-62949029-	m - o r ð e r -
Italian	27-934240340	m - ɔ r d e r e
PortugueseBrazil	27-63724037-	m - o ʁ d e ʁ -
Portuguese	27-152949029-	m - u r ð e r -
Catalan		
Walloon		
Friulian	2782834247--	m w a r d i - -
Romanian		
[ToBite]		
Latin	276341475052340	m o r s i k a: r e
French		
Spanish	276-14-502829-	m o - s - k a r -
Italian	276341475028290	m o r s i k a r e
PortugueseBrazil	2715-144128--	m u - s ə g a - -
Portuguese	2715-14412834-	m u - s ə g a r -
Catalan	2715-1448528--	m u - s ə ɣ a - -
Walloon		
Friulian		
Romanian	2715341405028--	m u r s e k a - -
[ToSuck]		
Latin	142210340	s u: g e r e
French	1423140--	s y s e - -
Spanish		

Appendix 3 - Character File

Italian		
PortugueseBrazil	141512837-	s u g a ɣ -
Portuguese	141512829-	s u g a r -
Catalan		
Walloon	14231438--	s y s i: - -
Friulian	65156552--	c u c a: - -
Romanian	1415100--	s u ɕ e - -
[ToSpit]		
Latin	506131447150340	k o n s p u e r e
French	5089-1447230--	k ɔ̃ - s p y e - -
Spanish		
Italian		
PortugueseBrazil	5015-1447737--	k u - s p i ɣ - -
Portuguese	5015-1747729--	k u - ʃ p i r - -
Catalan		
Walloon		
Friulian		
Romanian		
[ToSpit]		
Latin		
French		
Spanish	0145015-47729	e s k u - p i r
Italian		
PortugueseBrazil		
Portuguese		
Catalan	4145015-477-	ə s k u - p i -
Walloon		
Friulian		
Romanian	-145015124728-	- s k u j p a -
[ToSpit]		
Latin	-144715210340	- s p u t e r e
French		
Spanish	0144715212829-	e s p u t a r -
Italian	-1447152128290	- s p u t a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	-1447152452--	- s p u d a: - -
Romanian		
[ToVomit]		
Latin	86270340	w o m e r e
French	19627737-	v o m i ɣ -
Spanish		
Italian	199270340	v ɔ̃ m e r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	192277--	v ɔ: m i - -
Friulian		
Romanian	1940270--	v ɔ̃ m e - -

Appendix 3 - Character File

[ToBlow]

Latin	141525253352340	s u f f l a: r e
French	1415-25330--	s u - f l e - -
Spanish		
Italian	14625251228340	s o f f j a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	1415-25330--	s u - f l e - -
Friulian	146-253352--	s o - f l a: - -
Romanian	1415-253328--	s u - f l a - -

[ToBreathe]

Latin	3401447383452340	r e s p i: r a: r e
French		
Spanish	34014477292829-	r e s p i r a r -
Italian	340144773428290	r e s p i r a r e
PortugueseBrazil	37014477292829-	ʁ e s p i r a r -
Portuguese	374517477292829-	ʁ i f p i r a r -
Catalan	344144772928--	r ə s p i r a - -
Walloon		
Friulian	340144773452--	r e s p i r a: - -
Romanian		

[ToLaugh]

Latin	3438-2426340	r i: - d e: r e
French	377---37-	ʁ i - - - ʁ -
Spanish	340--729-	r e - - i r -
Italian	3438-240290	r i: - d e r e
PortugueseBrazil	377---37-	ʁ i - - - ʁ -
Portuguese	377---29-	ʁ i - - - r -
Catalan	3478--294	r i w - - r ə
Walloon	3738---37-	ʁ i: - - - ʁ -
Friulian	347-247--	r i - d i - -
Romanian	2945-240--	r i - d e - -

[ToSee]

Latin	8-72426340	w - i d e: r e
French	19828--37-	v w a - - ʁ -
Spanish	20---029-	b - - - e r -
Italian	19-0240290	v - e d e r e
PortugueseBrazil	19---037-	v - - - e ʁ -
Portuguese	19---029-	v - - - e r -
Catalan	20-328-294	b - ε w - r ə
Walloon	19-38--54-	v - i: - - r -
Friulian	19126247--	v j o d i - -
Romanian	19-02480--	v - e d ɣa - -

[ToHear]

Latin	78-2438340	au- d i: r e
French	8--737-	w - - i ʁ -
Spanish	6--729-	o - - i r -
Italian	15-247290	u - d i r e
PortugueseBrazil	6819737-	o w v i ʁ -
Portuguese	6819729-	o w v i r -
Catalan	15--7--	u - - i - -

Appendix 3 - Character File

Walloon	60--54--	õ - - r - -
Friulian	15332438--	u l d i: - -
Romanian	78-487--	aṽ- z i - -
[ToKnow]		
Latin	145038340	s k i: r e
French		
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	17217--	f t i - -
[ToKnow]		
Latin	142847-0340	s a p - e r e
French	14281982837-	s a v w a ʁ -
Spanish	142820-029-	s a b - e r -
Italian	142847-0340	s a p - e r e
PortugueseBrazil	142820-037-	s a b - e ʁ -
Portuguese	143020-029-	s ɐ b - e r -
Catalan	14467-32--	s ə β - ε - -
Walloon	142819-7254-	s a v - ø: R -
Friulian	142819-26--	s a v - e: - -
Romanian		
[ToKnow]		
Latin	506113214500340	k o g n o: s k e r e
French	509-1332-21-37-	k ɔ - n ε - t - ʁ -
Spanish	506-13657-029-	k o - n o θ - e r -
Italian	506-13617170340	k o - n o f f e r e
PortugueseBrazil	506-39014-037-	k o - ɲ e s - e ʁ -
Portuguese	5015-394514-029-	k u - ɲ i s - e r -
Catalan	5015-133217-4--	k u - n ε f - ə - -
Walloon	507-13961----	k i - n ɔ h - - - -
Friulian	506-39614-7--	k o - ɲ o s - i - -
Romanian	5015-134017210--	k u - n ɔ a f t e - -
[ToThink]		
Latin	50-2172152340	k - o: g i t a: r e
French	5069--7240--	k ɥ - - i d e - -
Spanish	508--7242829-	k w - - i d a r -
Italian	50-61072128340	k - o dʒ i t a r e
PortugueseBrazil	50-1537212837-	k - u ʒ i t a ʁ -
Portuguese	50-1537212829-	k - u ʒ i t a r -
Catalan	50-15-122428--	k - u - j d a - -
Walloon		
Friulian		
Romanian	50-151002128--	k - u dʒ e t a - -
[ToThink]		
Latin	4726131452340	p e: n s a: r e
French	4741-140--	p ɑ̃ - s e - -
Spanish	47013142829-	p e n s a r -

Appendix 3 - Character File

Italian	470131428290	p e n s a r e
PortugueseBrazil	4764-142837-	p ĕ - s a ʁ -
Portuguese	4764-142829-	p ĕ - s a r -
Catalan	474131428--	p ə n s a - -
Walloon	4762-140--	p ě - s e - -
Friulian	470751452--	p e ŋ s a: - -
Romanian	474-1428--	p ə - s a - -

[ToSmell]

Latin	140132138340	s e n t i: r e
French	1441-21737-	s ã - t i ʁ -
Spanish	1401321729-	s e n t i r -
Italian	14013217340	s e n t i r e
PortugueseBrazil	1464-44737-	s ĕ - t̃i ʁ -
Portuguese	1464-21729-	s ĕ - t i r -
Catalan	14413217--	s ə n t i - -
Walloon	1462-217--	s ě - t i - -
Friulian	147132138--	s i n t i: - -
Romanian	14727517--	s i m t s i - -

[ToSmell]

Latin	63326340	o l e: r e
French		
Spanish	633029-	o l e r -
Italian	6337340	o l i r e
PortugueseBrazil		
Portuguese		
Catalan	1533152928	u l u r a
Walloon		
Friulian		
Romanian		

[ToSmell]

Latin	62423452340	o d o: r a: r e
French		
Spanish		
Italian	62463428340	o d o r a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

[ToSmell]

Latin	25345213452340	f r a: g r a: r e
French	253332-370--	f l ε - ʁ e - -
Spanish		
Italian	25342813428340	f r a g r a r e
PortugueseBrazil	17-58-292837-	f - ej - r a ʁ -
Portuguese	17-59-292829-	f - ej - r a r -
Catalan	25334122928--	f l ə j r a - -
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[ToFear]

Latin	2172726340	t i m e: r e
French		
Spanish	21027029-	t e m e r -
Italian	210270340	t e m e r e
PortugueseBrazil	21027037-	t e m e ʁ -
Portuguese	214527029-	t i m e r -
Catalan	210274--	t e m ə - -
Walloon		
Friulian	210277--	t e m i - -
Romanian	210270--	t e m e - -

[ToFear]

Latin	2134027-0340	t r e m - e r e
French	503764-24-37-	k ʁ ě - d - ʁ -
Spanish	2129027-029-	t r e m - e r -
Italian	2134027-28340	t r e m - a r e
PortugueseBrazil	2129027-037-	t r e m - e ʁ -
Portuguese	21294527-029-	t r i m - e r -
Catalan		
Walloon		
Friulian	2134727-52--	t r i m - a - -
Romanian		

[ToSleep]

Latin	24-6342738340	d - o r m i: r e
French	24-93727737-	d - ɔ ʁ m i ʁ -
Spanish	24-62927729-	d - o r m i r -
Italian	24-634277340	d - o r m i r e
PortugueseBrazil	24-63727737-	d - o ʁ m i ʁ -
Portuguese	24-152927729-	d - u r m i r -
Catalan	24-1534277--	d - u r m i - -
Walloon	2482837277--	d w a ʁ m i - -
Friulian	24-15342738--	d - u r m i: - -
Romanian	24-634277--	d - o r m i - -

[ToLive]

Latin	83880340	w i: w e r e
French	19719-37-	v i v - ʁ -
Spanish	20720729-	b i b i r -
Italian	197190340	v i v e r e
PortugueseBrazil	19719037-	v i v e ʁ -
Portuguese	19719029-	v i v e r -
Catalan	2078-294	b i w - r ə
Walloon		
Friulian	197197--	v i v i - -
Romanian	197-28--	v i - a - -

[ToDie]

Latin		
French	271537737-	m u ʁ i ʁ -
Spanish	27629729-	m o r i r -
Italian	276347340	m o r i r e
PortugueseBrazil	27637037-	m o ʁ e ʁ -
Portuguese	271537029-	m u ʁ e r -
Catalan	2715297--	m u r i - -

Appendix 3 - Character File

Walloon	279547--	mɔ̃ r i - -
Friulian	27153438--	m u r i : - -
Romanian	2715347--	m u r i - -
[ToKill]		
Latin	13-05052340	n - e k a : r e
French	13855-0--	n w a j - e - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan	13-4128--	n - ə g a - -
Walloon		
Friulian		
Romanian	13-05028--	n - e k a - -
[ToKill]		
Latin		
French		
Spanish	28-13012829-	a - n e g a r -
Italian	2813130128340	a n n e g a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[ToKill]		
Latin	2122-2152347	t u : - t a : r i
French	21-69-0--	t - ʏ - e - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	21158-0--	t u w - e - -
Friulian		
Romanian		
[ToKill]		
Latin	2728502152340	m a k t a : r e
French	2728-210--	m a - t e - -
Spanish	2728-212829-	m a - t a r -
Italian		
PortugueseBrazil	2728-212837-	m a - t a ʁ -
Portuguese	2730-212829-	m ʁ - t a r -
Catalan	274-2128--	m ə - t a - -
Walloon		
Friulian	2728-4452--	m a - tʃ a : - -
Romanian		
[ToKill]		
Latin	6505038240340	o k k i : d e r e
French	950147--37-	ɔ̃ k s i - - ʁ -
Spanish		

Appendix 3 - Character File

Italian	1521447240290	u t t f i d e r e
PortugueseBrazil		
Portuguese		
Catalan	1550147----	u k s i - - - -
Walloon		
Friulian		
Romanian	15-447240--	u - t f i d e - -
[ToFight]		
Latin	471511352340	p u g n a: r e
French		
Spanish	4715-392829-	p u - p a r -
Italian	4715393928340	p u p n a r e
PortugueseBrazil		
Portuguese		
Catalan	4715-3928--	p u - p a - -
Walloon		
Friulian		
Romanian		
[ToFight]		
Latin	20282121150340	b a t t u e r e
French	2028-21--37-	b a - t - - x -
Spanish	2028-21-729-	b a - t - i r -
Italian	20282121-0340	b a t t - e r e
PortugueseBrazil	2028-21-037-	b a - t - e x -
Portuguese	2030-21-029-	b e - t - e r -
Catalan	2028-21--294	b a - t - - r o
Walloon	2028-21-0--	b a - t - e - -
Friulian	2028-21-7--	b a - t - i - -
Romanian	2028-21-0--	b a - t - e - -
[ToHunt]		
Latin	50284721752340	k a p t i a: r e
French	1728-14-0--	f a - s - e - -
Spanish	5028-57-2829-	k a - t - a r -
Italian	50282144-28340	k a t t f - a r e
PortugueseBrazil	5028-14-2837-	k a - s - a x -
Portuguese	5030-14-2829-	k e - s - a r -
Catalan	504-14-28--	k o - s - a - -
Walloon	4432-14-38--	t f e - s - i: - -
Friulian	6528-44-52--	c a - t f - a: - -
Romanian		
[ToHit]		
Latin	4715331452340	p u l s a: r e
French	4715-140--	p u - s e - -
Spanish	4715-352829-	p u - x a r -
Italian	4715331428340	p u l s a r e
PortugueseBrazil	4715-172837-	p u - f a x -
Portuguese	4715-172829-	p u - f a r -
Catalan		
Walloon		
Friulian	4715331452--	p u l s a: - -
Romanian	4715331428--	p u l s a - -

Appendix 3 - Character File

[ToCut]

Latin	14-05052340	s - e k a: r e
French	14120----	s j e - - - -
Spanish	14-012829-	s - e g a r -
Italian	14-0128340	s - e g a r e
PortugueseBrazil	14-012837-	s - e g a ʁ -
Portuguese	14-45852829-	s - i ɣ a r -
Catalan	14-48528--	s - ə ɣ a - -
Walloon		
Friulian	14-0-52--	s - e - a: - -
Romanian		

[ToCut]

Latin	5015342152340	k u r t a: r e
French		
Spanish	50629212829-	k o r t a r -
Italian		
PortugueseBrazil	50637212837-	k o ʁ t a ʁ -
Portuguese	501529212829-	k u r t a r -
Catalan		
Walloon		
Friulian		
Romanian		

[ToCut]

Latin	050145015342152340	e k s k u r t a: r e
French	0--501537210--	e - - k u ʁ t e - -
Spanish		
Italian	--14506342128340	- - s k o r t a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	--145015342152--	- - s k u r t a: - -
Romanian	--145015342128--	- - s k u r t a - -

[ToCut]

Latin	2152-33752340	t a: - l i a: r e
French	218412--0--	t a j - - e - -
Spanish	2128-35-2829-	t a - x - a r -
Italian	2128-363652340	t a - ʎ ʎ a: r e
PortugueseBrazil	2128-36-2837-	t a - ʎ - a ʁ -
Portuguese	2130-36-2829-	t ɐ - ʎ - a r -
Catalan	214-36-28--	t ə - ʎ - a - -
Walloon	2132--1238--	t ɛ - - j i: - -
Friulian	2128--1252--	t a - - j a: - -
Romanian	214--1228--	t ə - - j a - -

[ToSplit]

Latin	243887240340	d i: w i d e r e
French		
Spanish	24720724729-	d i b i d i r -
Italian	247197240340	d i v i d e r e
PortugueseBrazil	10719710737-	ɖ i v i ɖ i ʁ -
Portuguese	24719749729-	d i v i ð i r -
Catalan	247207247--	d i b i d i - -

Appendix 3 - Character File

Walloon		
Friulian	247197247--	d i v i d i - -
Romanian	247197240--	d i v i d e - -
[ToSplit]		
Latin	1450713240340	s k i n d e r e
French	14-62-240--	s - ã - d e - -
Spanish		
Italian	17-713240340	f - i n d e r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[ToSplit]		
Latin	25713240340	f i n d e r e
French	2541-24-37-	f ã - d - ɤ -
Spanish	-01324029-	- e n d e r -
Italian	253213240340	f ε n d e r e
PortugueseBrazil	2564-24037-	f ã - d e ɤ -
Portuguese	2564-24029-	f ã - d e r -
Catalan	25321324-294	f ε n d - r ə
Walloon	2562-21---	f ã - t - - -
Friulian		
Romanian		
[ToSplit]		
Latin	4728342138340	p a r t i r e
French	47283721737-	p a ɤ t i ɤ -
Spanish	47282921729-	p a r t i r -
Italian	472834217340	p a r t i r e
PortugueseBrazil	47283744737-	p a ɤ f i ɤ -
Portuguese	47302921729-	p ɐ r t i r -
Catalan	47434217--	p ə r t i - -
Walloon	477354217--	p ɔː r t i - -
Friulian	4728342138--	p a r t i - -
Romanian		
[ToSplit]		
Latin	142647283452340	s e p a r a r e
French	14419---370	s ə v - - - ɤ e
Spanish	1404728292829-	s e p a r a r -
Italian	14047283428340	s e p a r a r e
PortugueseBrazil	1404728292837-	s e p a r a ɤ -
Portuguese	14454730292829-	s i p ɐ r a r -
Catalan	1444742928--	s ə p ə r a - -
Walloon		
Friulian	14047283452--	s e p a r a - -
Romanian	14047283428--	s e p a r a - -
[ToStab]		
Latin	47-151310340	p - u n g e r e
French	47862-24-37-	p w ã - d - ɤ -
Spanish		

Appendix 3 - Character File

Italian	47-1513100340	p - u n d̥ e r e
PortugueseBrazil	47-91-3737-	p - ũ - ʒ i ʁ -
Portuguese	47-91-3729-	p - ũ - ʒ i r -
Catalan	47-1539-7--	p - u ɲ - i - -
Walloon		
Friulian		
Romanian	47-1513100--	p - u n d̥ e - -
[ToStab]		
Latin	12151153352340	j u g u l a: r e
French	323123330--	ʒ y g y l e - -
Spanish		
Italian	12151153352340	j u g u l a: r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[ToScratch]		
Latin	3452240340	r a: d e r e
French		
Spanish	3428-029-	r a - e r -
Italian	3428240340	r a d e r e
PortugueseBrazil	3728-037-	ʁ a - e ʁ -
Portuguese	3730-029-	ʁ e - e r -
Catalan	34288-294	r a w - r ə
Walloon		
Friulian	34282452--	r a d a: - -
Romanian	3428240--	r a d e - -
[ToScratch]		
Latin		
French	3784480--	ʁ a z e - -
Spanish	3428142829-	r a s a r -
Italian	34281428340	r a s a r e
PortugueseBrazil	3728482837-	ʁ a z a ʁ -
Portuguese	3730482829-	ʁ e z a r -
Catalan	3444828--	r ə z a - -
Walloon		
Friulian	34281452--	r a s a: - -
Romanian		
[ToScratch]		
Latin		
French		
Spanish	342814502829	r a s k a r
Italian		
PortugueseBrazil	372817502837	ʁ a f k a ʁ
Portuguese	373017502829	ʁ e f k a r
Catalan	344145028-	r ə s k a -
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[ToScratch]

Latin		
French		
Spanish		
Italian		
PortugueseBrazil	506142892	k o s a ɹ
Portuguese	5015142829	k u s a r
Catalan		
Walloon		
Friulian		
Romanian		

[ToDig]

Latin	25-6240340	f - o d e r e
French	2587--37-	f w i - - ɣ -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

[ToDig]

Latin	5028852340	k a w a: r e
French	174190--	ʃ ə v e - -
Spanish	5028202829-	k a b a r -
Italian	50281928340	k a v a r e
PortugueseBrazil	5030192837-	k ɐ v a ɣ -
Portuguese	5030192829-	k ɐ v a r -
Catalan	5042028--	k ə b a - -
Walloon		
Friulian	83281952--	ʒ a v a: - -
Romanian		

[ToDig]

Latin	050145028852340	e k s k a w a: r e
French		
Spanish	0145028202829--	e s k a b a r - -
Italian	-1450281928340-	- s k a v a r e -
PortugueseBrazil	7-175030192837-	i - ʃ k ɐ v a ɣ -
Portuguese	7-175030192829-	i - ʃ k ɐ v a r -
Catalan		
Walloon		
Friulian	--4883281952--	- - z ʒ a v a: - -
Romanian		

[ToSwim]

Latin	13-282152340	n - a t a: r e
French		
Spanish	13-28242829-	n - a d a r -
Italian	13862128290	n w o t a r e
PortugueseBrazil	13-28242837-	n - a d a ɣ -
Portuguese	13-30492829-	n - ɐ ð a r -
Catalan	13-42428--	n - ə d a - -

Appendix 3 - Character File

Walloon		
Friulian	13-282452--	n - a d a: - -
Romanian		
[ToSwim]		
Latin	1328197152340	n a v i g a: r e
French	1328--30--	n a - - z e - -
Spanish	132820012829-	n a b e g a r -
Italian	1328197128340	n a v i g a: r e
PortugueseBrazil	13281945852837-	n a v i γ a ρ -
Portuguese	13301945852829-	n e v i γ a r -
Catalan	134204128--	n ə b ə g a - -
Walloon	1332--1038--	n ε - - dʒi: - -
Friulian	1328197152--	n a v i g a: - -
Romanian	1328197128--	n a v i g a - -
[ToFly]		
Latin	863352340	w o l a: r e
French	196330--	v o l e - -
Spanish	206332829-	b o l a r -
Italian	1963328290	v o l a: r e
PortugueseBrazil	196-2837-	v o - a ρ -
Portuguese	198-2829-	v w - a r -
Catalan	20153328--	b u l a - -
Walloon	199330--	v ɔ l e - -
Friulian		
Romanian		
[ToFly]		
Latin		
French		
Spanish		
Italian	481963328290	z v o l a: r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	481963352--	z v o l a: - -
Romanian	4820152928--	z b u r a - -
[ToWalk]		
Latin		
French	174-277130--	f ə - m i n e - -
Spanish	5028-277132829-	k a - m i n a r -
Italian	5028272771328290	k a m m i n a: r e
PortugueseBrazil	5030-277392837-	k e - m i γ a ρ -
Portuguese	5030-277392829-	k e - m i γ a r -
Catalan	504-2771328--	k ə - m i n a - -
Walloon	447-277130--	f i - m i n e - -
Friulian	6528-2771352--	c a - m i n a: - -
Romanian		
[ToWalk]		
Latin		
French	272837170	m a ρ f e
Spanish		

Appendix 3 - Character File

Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	2752544438	m a: r tʃ i:
Friulian		
Romanian		
[ToWalk]		
Latin	2703410340	m e r g e r e
French		
Spanish		
Italian	273234100340	m ɛ r dʒ e r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	27034100--	m e r dʒ e - -
[ToWalk]		
Latin	28272072152340	a m b i t a: r e
French		
Spanish	281324--2829-	a n d - - a r -
Italian	281324--28340	a n d - - a r e
PortugueseBrazil	43-24--2837-	ẽ - d - - a ʁ -
Portuguese	43-24--2829-	ẽ - d - - a r -
Catalan		
Walloon		
Friulian		
Romanian		
[ToCome]		
Latin	801338340	w e n i: r e
French	19413737-	v ə n i ʁ -
Spanish	20013729-	b e n i r -
Italian	190137290	v e n i r e
PortugueseBrazil	19--737-	v - - i ʁ -
Portuguese	19--729-	v - - i r -
Catalan	204137--	b ə n i - -
Walloon	197137--	v i n i - -
Friulian	1973938--	v i ɲ i: - -
Romanian	190137--	v e n i - -
[ToLieAsInABed]		
Latin	0501421013240340	e k s t e n d e r e
French	0--2141-24-37-	e - - t ā - d - ʁ -
Spanish	050142101324029-	e k s t e n d e r -
Italian	0-14213213240340	e - s t ɛ n d e r e
PortugueseBrazil	7-142164-24037-	i - s t ẽ - d e ʁ -
Portuguese	7-172164-24029-	i - ʃ t ẽ - d e r -
Catalan	4-142101324-294	ə - s t e n d - r ə
Walloon		
Friulian		
Romanian	0501421713240--	e k s t i n d e - -

Appendix 3 - Character File

[ToLieAsInABed]

Latin	1228-5026340	j a - k e: r e
French	30-48737-	ʒ e - z i ʁ -
Spanish	528-57029-	j a - θ e r -
Italian	1028-4426290	ʤ a - ʃ e: r e
PortugueseBrazil	330-48037-	ʒ e - z e ʁ -
Portuguese	330-48029-	ʒ e - z e r -
Catalan	3288--294	ʒ a w - - r ə
Walloon	100---340	ʤ e - - - r e
Friulian	120-147--	j e - s i - -
Romanian	484-4480--	z ə - ʃ ɛa - -

[ToSit]

Latin	14-02426340	s - e d e: r e
French	14828--37-	s w a - - ʁ -
Spanish	14-0--29-	s - e - - r -
Italian	14-0240340	s - e d e r e
PortugueseBrazil	14-0--37-	s - e - - ʁ -
Portuguese	14-0--29-	s - e - - r -
Catalan		
Walloon		
Friulian		
Romanian	17-02480--	ʃ - e d ɛa - -

[ToSit]

Latin	140240132152340	s e d e n t a: r e
French		
Spanish	140--13212829-	s e - - n t a r -
Italian		
PortugueseBrazil	1464---212829-	s ě - - - t a r -
Portuguese	1464---212829-	s ě - - - t a r -
Catalan		
Walloon		
Friulian	140--132152--	s e - - n t a: - -
Romanian		

[ToStand]

Latin	-142152340	- s t a: r e
French	32-21-37-	ɛ - t - ʁ -
Spanish	014212829-	e s t a r -
Italian	-142128340	- s t a r e
PortugueseBrazil	4517212829-	i ʃ t a r -
Portuguese	4517212829-	i ʃ t a r -
Catalan	4142128--	ə s t a - -
Walloon	3214----	ɛ s - - - -
Friulian	-142152--	- s t a: - -
Romanian	-142128--	- s t a - -

[ToStand]

Latin	3301952340	l e v a: r e
French	334190--	l ə v e - -
Spanish	50202829-	j e b a r -
Italian	3301928340	l e v a r e
PortugueseBrazil	330192837-	l e v a ʁ -
Portuguese	3345192829-	l i v a r -
Catalan	3642028--	ʎ ə b a - -

Appendix 3 - Character File

Walloon	334190--	l ə v e - -
Friulian	3301952--	l e v a: - -
Romanian	33-1528--	l - u a - -
[ToStand]		
Latin		
French	-6-140--	- o - s e - -
Spanish	-2833572829-	- a l θ a r -
Italian	-28335128340	- a l t s a r e
PortugueseBrazil	-28681428--	- a ł s a - -
Portuguese	-2868142829-	- a ł s a r -
Catalan	-4331428--	- ə l s a - -
Walloon	6173-1438--	h ɔ: - s i: - -
Friulian	-28334452--	- a l tʃ a: - -
Romanian		
[ToTurnIntransitive]		
Latin	216341352340	t o r n a: r e
French	211537130--	t u ʁ n e - -
Spanish	21629132829-	t o r n a r -
Italian	216341328340	t o r n a r e
PortugueseBrazil	21637132837-	t o ʁ n a ʁ -
Portuguese	211529132829-	t u r n a r -
Catalan	2115341328--	t u r n a - -
Walloon	212234130--	t u: r n e - -
Friulian	216341352--	t o r n a: - -
Romanian	2115341328--	t u r n a - -
[ToTurnIntransitive]		
Latin	1233452340	g y r a: r e
French	37370--	ʒ i ʁ e - -
Spanish	357292829-	x i r a r -
Italian	1073428290	ʒ i r a r e
PortugueseBrazil	37292829-	ʒ i r a r -
Portuguese	37292829-	ʒ i r a r -
Catalan	372928--	ʒ i r a - -
Walloon		
Friulian	1073452--	ʒ i r a: - -
Romanian		
[ToTurnIntransitive]		
Latin		
French	197370--	v i ʁ e - -
Spanish	207292829-	b i r a r -
Italian	1973428290	v i r a r e
PortugueseBrazil	197292829-	v i r a r -
Portuguese	37292829-	ʒ i r a r -
Catalan	2072928--	b i r a - -
Walloon	197370--	v i ʁ e - -
Friulian	1073452--	ʒ i r a: - -
Romanian		
[ToTurnIntransitive]		
Latin	216348726340	t o r k ^w e: r e
French	2193724-37-	t ɔ ʁ d - ʁ -
Spanish	2162957029-	t o r θ e r -

Appendix 3 - Character File

Italian	21934440340	t ɔ r tʃ e r e
PortugueseBrazil	21153414034-	t u r s e r -
Portuguese	21153414034-	t u r s e r -
Catalan	21934144--	t ɔ r s ə - -
Walloon		
Friulian		
Romanian	214034440--	t ɔ r tʃ e - -
[ToFall]		
Latin	50-28240340	k - a d e r e
French	17828--37-	ʃ w a - - ʁ -
Spanish	50-28-029-	k - a - e r -
Italian	50-28240290	k - a d e r e
PortugueseBrazil	50-30-729-	k - ɐ - i r -
Portuguese	50-30-729-	k - ɐ - i r -
Catalan	50-288-344	k - a w - r ə
Walloon	44-56--54-	tʃ - ɛ - - ʀ -
Friulian	441228240--	tʃ j a d e - -
Romanian	5042480---	k ə d ɛ a - - -
[ToFall]		
Latin		
French	2160-200-	t ɔ - b e -
Spanish	211527202829	t u m b a r
Italian		
PortugueseBrazil	2160-202837	t ɔ - b a ʁ
Portuguese	2160-202829	t ɔ - b a r
Catalan	2115272028-	t u m b a -
Walloon	211527-0-	t u m - e -
Friulian		
Romanian		
[ToGive]		
Latin	2428340	d a r e
French		
Spanish	242829-	d a r -
Italian	2428340	d a r e
PortugueseBrazil	242837-	d a ʁ -
Portuguese	242829-	d a r -
Catalan	242834-	d a r -
Walloon		
Friulian	2452--	d a: - -
Romanian	2428--	d a - -
[ToGive]		
Latin	2461352340	d o n a: r e
French	249130--	d ɔ n e - -
Spanish	246132829-	d o n a r -
Italian	2461328340	d o n a r e
PortugueseBrazil	246-28--	d o - a - -
Portuguese	2415-2829-	d u - a r -
Catalan	24151328--	d u n a - -
Walloon	247130--	d i n e - -
Friulian	2461352--	d o n a: - -
Romanian		

Appendix 3 - Character File

[ToHold]

Latin	21013-26340	t e n - e r e
French	21413-737-	t ə n - i ʁ -
Spanish	21013-029-	t e n - e r -
Italian	21013-0290	t e n - e r e
PortugueseBrazil	210---37-	t e - - - ʁ -
Portuguese	210---29-	t e - - - r -
Catalan	21413-7--	t ə n - i - -
Walloon	21713-7--	t i n - i - -
Friulian	21713127--	t i n j i - -
Romanian	51713-0--	ts i n - e - -

[ToHold]

Latin		
French		
Spanish	140115292829	s e g u r a r
Italian		
PortugueseBrazil	1445115292837	s i g u r a ʁ
Portuguese	14458515292829	s i ɣ u r a r
Catalan		
Walloon		
Friulian		
Romanian		

[ToSqueeze]

Latin	050144734727-0340	e k s p r i m - e r e
French	0--473762-24-37-	e - - p ʁ ẽ - d - ʁ -
Spanish	050144729027-729-	e k s p r e m - i r -
Italian	--1447343227-0340	- - s p r e m - e r e
PortugueseBrazil	7-174734427-037-	i - ʃ p r ə m - e ʁ -
Portuguese	7-174734427-034-	i - ʃ p r ə m - e r -
Catalan	4-144729027-4--	ə - s p r e m - ə - -
Walloon		
Friulian	0-144734727-7--	e - s p r i m - i - -
Romanian	-1450-340270---	- s k - r e m e - - -

[ToSqueeze]

Latin	14034340340	s e r r e r e
French		
Spanish	140-342829-	s e - r a r -
Italian		
PortugueseBrazil	140-3728--	s e - ʁ a - -
Portuguese	144-542829-	s ə - ʁ a r -
Catalan	144-3428--	s ə - r a - -
Walloon		
Friulian		
Romanian		

[ToSqueeze]

Latin	140-3428340	s e - r a r e
French	140-370--	s e - ʁ e - -
Spanish	570-342829-	θ e - r a r -
Italian	140343428340	s e r r a r e
PortugueseBrazil	1445-372829-	s i - ʁ a r -
Portuguese	1445-372829-	s i - ʁ a r -
Catalan		

Appendix 3 - Character File

Walloon	1432-540--	s ε - r e - -
Friulian		
Romanian		
[ToSqueeze]		
Latin	2847470502163452340	a p p e k t o r a : r e
French		
Spanish	28-47--290212829-	a - p - - r e t a r -
Italian		
PortugueseBrazil	30-4745-29-212829-	e - p i - r - t a r -
Portuguese	30-4745-29-212829-	e - p i - r - t a r -
Catalan		
Walloon		
Friulian		
Romanian		
[ToSqueeze]		
Latin	-14213471310340	- s t r i n g e r e
French	0-213762-24-37-	e - t ʁ ē - d - ʁ -
Spanish	0142129039-729-	e s t r e ɲ - i r -
Italian	-142134713100340	- s t r i n ɕ e r e
PortugueseBrazil	417213442-3734-	ə ʃ t r i - ʒ i r -
Portuguese	417213442-3734-	ə ʃ t r i - ʒ i r -
Catalan	41421293239-4--	ə s t r ε ɲ - ə - -
Walloon	-14213471310--	- s t r i n g e - -
Friulian	-1421343213138--	- s t r ε n g i : - -
Romanian	-1421344513100--	- s t r i n ɕ e - -
[ToRub]		
Latin	253475052340	f r i k a : r e
French	2537860---	f ʁ ε j e - - -
Spanish	2529012829-	f r e g a r -
Italian	25340128340	f r e g a r e
PortugueseBrazil		
Portuguese		
Catalan	25294128--	f r ə g a - -
Walloon	253418---	f r o j - - -
Friulian	25340-28--	f r e - a - -
Romanian	253405028--	f r e k a - -
[ToRub]		
Latin		
French		
Spanish		
Italian		
PortugueseBrazil	451725294512829	i ʃ f r i g a r
Portuguese	4517252945852829	i ʃ f r i ɣ a r
Catalan		
Walloon		
Friulian		
Romanian		
[ToRub]		
Latin	25347502152340	f r i k t a : r e
French	25376-210--	f ʁ o - t e - -
Spanish	25296-212829-	f r o - t a r -

Appendix 3 - Character File

Italian	25340212128340	f r e t t a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	25376-210--	f r o - t e - -
Friulian		
Romanian		
[ToRub]		
Latin		
French		
Spanish	25347142829	f r i s a r
Italian		
PortugueseBrazil		
Portuguese		
Catalan	252941428-	f r ə s a -
Walloon		
Friulian		
Romanian		
[ToWash]		
Latin	3328852340	l a w a : r e
French	3328190--	l a v e - -
Spanish	3328672829-	l a ß a r -
Italian	33281928340	l a v a r e
PortugueseBrazil	3330192829-	l e v a r -
Portuguese	3330192829-	l e v a r -
Catalan	3642028--	Á ə b a - -
Walloon	3328190--	l a v e - -
Friulian	33281952--	l a v a : - -
Romanian	3328----	l a - - - -
[ToWipe]		
Latin	2103410340	t e r g e r e
French		
Spanish		
Italian	213234100340	t ɛ r ɕ e r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[ToWipe]		
Latin	050142103410340	e k s t e r g e r e
French		
Spanish	0-1421282914729-	e - s t a r s i r -
Italian		
PortugueseBrazil		
Portuguese		
Catalan	4-142143437--	ə - s t ə r ʒ i - -
Walloon		
Friulian		
Romanian	--1721034100--	- - ʃ t e r ɕ e - -

Appendix 3 - Character File

[ToWipe]

Latin	05014-2250-52340	e k s - u: k - a: r e
French	0-14697-120--	e - s ʁ i - j e - -
Spanish		
Italian	281717-151-28340	a ʃ ʃ - u g - a r e
PortugueseBrazil	64-17-151-2829-	ẽ - ʃ - u g - a r -
Portuguese	64-17-1585-2829-	ẽ - ʃ - u ɣ - a r -
Catalan	4-17-151-28--	ə - ʃ - u g - a - -
Walloon	--14-15-80--	- - s - u - w e - -
Friulian	--14-15-1252--	- - s - u - j a: - -
Romanian	15-14--50-28--	u - s - - k - a - -

[ToWipe]

Latin	337274772452340	l i m p i d a: r e
French		
Spanish	337274712-2829-	l i m p j - a r -
Italian		
PortugueseBrazil	3342-47--2829-	l i - p - - a r -
Portuguese	3342-47--2829-	l i - p - - a r -
Catalan		
Walloon		
Friulian		
Romanian		

[ToPull]

Latin	2173452340	t i r a: r e
French	217370--	t i ʁ e - -
Spanish	217292829-	t i r a r -
Italian	2173428340	t i r a r e
PortugueseBrazil	4472928--	tʃ i r a - -
Portuguese	217292829-	t i r a r -
Catalan	2172928--	t i r a - -
Walloon	217340--	t i r e - -
Friulian	2173452--	t i r a: - -
Romanian		

[ToPull]

Latin	4715331452340	p u l s a: r e
French	4715-140--	p u - s e - -
Spanish	4715-352829-	p u - x a r -
Italian	4715331428340	p u l s a r e
PortugueseBrazil	4715-172829-	p u - ʃ a r -
Portuguese	4715-172829-	p u - ʃ a r -
Catalan		
Walloon	47221438---	p u: s i: - - -
Friulian	4715331452--	p u l s a: - -
Romanian	4715331428--	p u l s a - -

[ToPull]

Latin	213428610340	t r a h e r e
French	2137--3237-	t ʁ - - ε ʁ -
Spanish		
Italian	21342834-340	t r a r - r e
PortugueseBrazil	212928480--	t r a z e - -
Portuguese	21293048029-	t r ε z e r -
Catalan	2129328-294	t r ε w - r ə

Appendix 3 - Character File

Walloon		
Friulian	213455----	t r a j - - - -
Romanian	213428100--	t r a ț e - -
[ToPush]		
Latin	7274771310340	i m p i n g e r e
French		
Spanish		
Italian	72747713100340	i m p i n ț e r e
PortugueseBrazil		
Portuguese		
Catalan	427473239-4--	ə m p ε ɲ - ə - -
Walloon		
Friulian		
Romanian	452747713100--	i m p i n ț e - -
[ToThrow]		
Latin	1228502152340	j a k t a: r e
French	34-210--	ʒ ə - t e - -
Spanish	-0-442829-	- e - ʎ a r -
Italian	100212128340	ț e t t a r e
PortugueseBrazil	358-212829-	ʒ ej - t a r -
Portuguese	358-212829-	ʒ ej - t a r -
Catalan	357-2128--	x i - t a - -
Walloon	1032-210--	ț ε - t e - -
Friulian		
Romanian		
[ToThrow]		
Latin	33281350052340	l a n k e a: r e
French	3341-14-0--	l ā - s - e - -
Spanish	33281357-2829-	l a n θ - a r -
Italian	33281344-28340	l a n ʎ - a r e
PortugueseBrazil	3343-14-28--	l ĩ - s - a - -
Portuguese	3343-14-2829-	l ĩ - s - a r -
Catalan	3641314-28--	Á ə n s - a - -
Walloon	33281365-38--	l a n c - i: - -
Friulian	33281344-52--	l a n ʎ - a: - -
Romanian		
[ToThrow]		
Latin	26-3415135052340	e: - r u n k a: r e
French		
Spanish	28-342813502829-	a - r a n k a r -
Italian	2834346134428340	a r r o n ʎ a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	28-2915755028--	a - r u ɲ k a - -
[ToTie]		
Latin	337152340	l i g a: r e
French	337-0--	l i - e - -
Spanish	33012829-	l e g a r -

Appendix 3 - Character File

Italian	330128340	l e g a r e
PortugueseBrazil		
Portuguese		
Catalan	3678528--	l i y a - -
Walloon	331638---	l o j i : - - -
Friulian	330-52--	l e - a : - -
Romanian	330128--	l e g a - -
[ToTie]		
Latin	28472152340	a p t a : r e
French		
Spanish	28-212829-	a - t a r -
Italian		
PortugueseBrazil	30-212829-	e - t a r -
Portuguese	30-212829-	e - t a r -
Catalan		
Walloon		
Friulian		
Romanian		
[ToSew]		
Latin	50213-14150340	k o : n - s u e r e
French	5015-24---37-	k u - d - - - x -
Spanish	506--14-029-	k o - - s - e r -
Italian	5015--44-7340	k u - - t f - i r e
PortugueseBrazil	5015--48-029-	k u - - z - e r -
Portuguese	5015--48-029-	k u - - z - e r -
Catalan	5015--48-7--	k u - - z - i - -
Walloon	5072--48----	k ø : - - z - - - -
Friulian	5015--48-7--	k u - - z - i - -
Romanian	6540--14-0--	c q a - - s - e - -
[ToCount]		
Latin	5062747152152340	k o m p u t a : r e
French	5060---210--	k ò - - - t e - -
Spanish	50613--212829-	k o n - - t a r -
Italian	50613--2128340	k o n - - t a r e
PortugueseBrazil	5060--212829-	k ò - - - t a r -
Portuguese	5060---212829-	k ò - - - t a r -
Catalan	501527--2128--	k u m - - t a - -
Walloon	5060---210--	k ò - - - t e - -
Friulian	50613--2152--	k o n - - t a : - -
Romanian		
[ToCount]		
Latin	131527-03452340	n u m - e r a : r e
French	1389-20-370--	n ã - b - x e - -
Spanish		
Italian	13619-03428340	n o v - e r a r e
PortugueseBrazil		
Portuguese		
Catalan	131527-02928--	n u m - e r a - -
Walloon		
Friulian	131527-03452--	n u m - e r a : - -
Romanian	131527-283428--	n u m - a r a - -

Appendix 3 - Character File

[ToSay]

Latin	2438500340	d i : k e r e
French	247--37-	d i - - ʁ -
Spanish	24057729-	d e θ i r -
Italian	247--340	d i - - r e
PortugueseBrazil	24748029-	d i z e r -
Portuguese	24748029-	d i z e r -
Catalan	247----	d i - - - -
Walloon	2438--37-	d i : - - ʁ -
Friulian	2438----	d i : - - - -
Romanian	487440--	z i ʦ e - -

[ToSay]

Latin	05014472130340	e k s p o : n e r e
French		
Spanish		
Italian	--1447634-340	- - s p o r - r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	--144715130--	- - s p u n e - -

[ToSing]

Latin	5028132152340	k a n t a : r e
French	1741-210--	f ã - t e - -
Spanish	502813212829-	k a n t a r -
Italian	5028132128340	k a n t a r e
PortugueseBrazil	5043-212829-	k õ - t a r -
Portuguese	5043-212829-	k õ - t a r -
Catalan	504132128--	k ə n t a - -
Walloon	4441-210--	ʦ ã - t e - -
Friulian	6528132152--	c a n t a : - -
Romanian	5045132128--	k i n t a - -

[ToPlay]

Latin	3322240340	l u : d e r e
French		
Spanish	331524729-	l u d i r -
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

[ToPlay]

Latin	126-5052340	j o - k a : r e
French	3-8-0--	ʒ - w - e - -
Spanish	3515-12829-	x u - g a r -
Italian	106-5028340	ʒ o - k a r e
PortugueseBrazil	36-12837-	ʒ o - g a ʁ -
Portuguese	315-852829-	ʒ u - ɣ a r -
Catalan	315-128--	ʒ u - g a - -

Appendix 3 - Character File

Walloon	10158-0--	ɖ u w - e - -
Friulian	101512-52--	ɖ u j - a - -
Romanian	315-5028--	ʒ u - k a - -
[ToFloat]		
Latin	25332250211552340	f l u : k t u a : r e
French	2533235021690--	f l y k t ɥ e - -
Spanish	25331512182829-	f l u g t w a r -
Italian	25331521211528340	f l u t t u a r e
PortugueseBrazil	253315-21152837-	f l u - t u a ʁ -
Portuguese	253315-21152829-	f l u - t u a r -
Catalan	25331550211528--	f l u k t u a - -
Walloon		
Friulian		
Romanian	25331565211528--	f l u c t u a - -
[ToFloat]		
Latin	25331572152340	f l u i t a r e
French		
Spanish		
Italian	25331572128340	f l u i t a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[ToFlow]		
Latin	2533150340	f l u e r e
French	2533230--	f l y e - -
Spanish	253315729-	f l u i r -
Italian	2533157340	f l u i r e
PortugueseBrazil	25338737-	f l w i ʁ -
Portuguese	25338729-	f l w i r -
Catalan	2533157--	f l u i - -
Walloon		
Friulian		
Romanian		
[ToFlow]		
Latin	5023352340	k o : l a : r e
French	5015330--	k u l e - -
Spanish	506332829-	k o l a r -
Italian	5063328340	k o l a r e
PortugueseBrazil	506-2837-	k o - a ʁ -
Portuguese	5015-2829-	k u - a r -
Catalan	50156828--	k u ł a - -
Walloon	509330--	k o l e - -
Friulian		
Romanian		
[ToFlow]		
Latin	05014501534340340	e k s k u r r e r e
French		
Spanish	0-145015-34729-	e - s k u - r i r -

Appendix 3 - Character File

Italian	--1450634340340	- - s k o r r e r e
PortugueseBrazil	7-17506-37037-	i - ʃ k o - ʁ e ʁ -
Portuguese	7-175015-54029-	i - ʃ k u - ʁ e r -
Catalan	4-14506-344--	ə - s k o - r ə - -
Walloon		
Friulian	--14506-3438--	- - s k o - r i - -
Romanian	--14501529100--	- - s k u r ɕ e - -
[ToFlow]		
Latin	501534340340	k u r r e r e
French	5015-37737-	k u - ʁ i ʁ -
Spanish	506-34029-	k o - r e r -
Italian	50634340340	k o r r e r e
PortugueseBrazil	506-37037-	k o - ʁ e ʁ -
Portuguese	5015-37029-	k u - ʁ e r -
Catalan	506-344--	k o - r ə - -
Walloon	509-547--	k ɔ - ʁ i - -
Friulian	506-347--	k o - r i - -
Romanian	501529100--	k u r ɕ e - -
[ToFreeze]		
Latin	103352340	g e l a : r e
French	34330--	ʒ ə l e - -
Spanish	-0332829-	- e l a r -
Italian	1003328340	ɕ e l a r e
PortugueseBrazil	345332829-	ʒ i l a r -
Portuguese	345332829-	ʒ i l a r -
Catalan	343328--	ʒ ə l a - -
Walloon	1028330--	ɕ ʒ a l e - -
Friulian		
Romanian		
[ToFreeze]		
Latin	13328-50752340	g l a - k i a : r e
French	13328-14-0--	g l a - s - e - -
Spanish		
Italian	1122821441228340	g j a t ʃ j a r e
PortugueseBrazil		
Portuguese		
Catalan	1334-14-28--	g l ə - s - a - -
Walloon		
Friulian	13328-44-52--	g l a - ʃ - a : - -
Romanian		
[ToFreeze]		
Latin	7131332850752340	i n g l a k i a : r e
French		
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	45131-051-28--	i n g - e t s - a - -

Appendix 3 - Character File

[ToSwell]		
Latin	713253352340	i n f l a: r e
French	41-25330--	ā - f l e - -
Spanish	71344-2829-	i n ʃ - a r -
Italian	01325728340	e n f i a r e
PortugueseBrazil	42-17-2829-	ĩ - ʃ - a r -
Portuguese	42-17-2829-	ĩ - ʃ - a r -
Catalan	727253328--	i m f l a - -
Walloon	64-25330--	ē - f l e - -
Friulian	013253352--	e n f l a: - -
Romanian	1527253328--	u m f l a - -
[ToSwell]		
Latin	-50-613253352340	- k - o n f l a: r e
French	-1-60-25330--	- g - ð - f l e - -
Spanish		
Italian	-1-613251228340	- g - o n f j a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	-1-60-25330--	- g - ð - f l e - -
Friulian	4813367525-52--	z g l o ɲ f - a: - -
Romanian		
[ToSwell]		
Latin	7132115272614500340	i n t u m e: s k e r e
French		
Spanish	013211527057-029-	e n t u m e θ - e r -
Italian		
PortugueseBrazil	42-211527014-029-	ĩ - t u m e s - e r -
Portuguese	42-211527014-029-	ĩ - t u m e s - e r -
Catalan		
Walloon		
Friulian		
Romanian		
[ToSwell]		
Latin	5034-26145026340	k r - e: s k e: r e
French	5037828-21-37-	k ʁ w a - t - ʁ -
Spanish	5029-057-029-	k r - e θ - e r -
Italian	5034-017170340	k r - e ʃ ʃ e r e
PortugueseBrazil	5029-014-037-	k r - e s - e ʁ -
Portuguese	5029-451714029-	k r - i ʃ s e r -
Catalan	5029-0-174--	k r - e - ʃ ə - -
Walloon		
Friulian		
Romanian	5029-017210--	k r - e ʃ t e - -
[ToBurn]		
Latin	503402752340	k r e m a: r e
French	503728270--	k ʁ a m e - -
Spanish	50-0272829-	k - e m a r -
Italian	503402728340	k r e m a r e
PortugueseBrazil	50-592728290	k - ɐ j m a r e
Portuguese	50-582728370	k - e j m a ʁ e
Catalan	503442728--	k r ə m a - -

Appendix 3 - Character File

Walloon
Friulian
Romanian

[ToBurn]

Latin	253328272752340	f l a m m a : r e
French	253328-270--	f l a - m e - -
Spanish		
Italian	251228272728340	f j a m m a r e
PortugueseBrazil		
Portuguese		
Catalan	256828-2728--	f ł a - m a - -
Walloon		
Friulian	253328-2752--	f l a - m a : - -
Romanian		

[ToBurn]

Latin	28342426340	a r d e : r e
French	283724-37-	a æ d - æ -
Spanish	282924029-	a r d e r -
Italian	2834240340	a r d e r e
PortugueseBrazil	283724037-	a æ d e æ -
Portuguese	302924029-	e r d e r -
Catalan		
Walloon		
Friulian		
Romanian	2829240--	a r d e - -

[ToBurn]

Latin	25332813452340	f l a g r a : r e
French	2533281370--	f l a g æ e - -
Spanish	2533281292829-	f l a g r a r -
Italian	25332813428340	f l a g r a r e
PortugueseBrazil	2533281372837-	f l a g æ a æ -
Portuguese	2533281292829-	f l a g r a r -
Catalan		
Walloon		
Friulian		
Romanian		

[ToBurn]

Latin	7135001324-0340	i n k e n d - e r e
French	62-1441-24120--	ẽ - s ã - d j e - -
Spanish	0135701324-029-	e n θ e n d - e r -
Italian	713443213241228340	i n ʃ ɛ n d j a r e
PortugueseBrazil	42-1401310112829-	ĩ - s e n ɕ i a r -
Portuguese	42-1464-24122829-	ĩ - s ẽ - d j a r -
Catalan	4131401324--294	ə n s e n d - - r ə
Walloon		
Friulian		
Romanian	4513447132430--	i n ʃ i n d ʒ e - -

[ToBurn]

Latin	151421153352340	u s t u l a : r e
French		
Spanish		

Appendix 3 - Character File

Italian	15142163328340	u s t o l a r e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	151421153428--	u s t u r a - -
[All]		
Latin	62713714	o m n i s
French		
Spanish		
Italian	639397-	o p n i -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[All]		
Latin	212-211514	t o r - t u s
French	2115----	t u - - - -
Spanish	216-246-	t o - d o -
Italian	211521216-	t u t t o -
PortugueseBrazil	216-2415-	t o - d u -
Portuguese	216-4915-	t o - ð u -
Catalan	216-21--	t o - t - -
Walloon	219----	t o - - - -
Friulian	2415-21--	d u - t - -
Romanian	216-21--	t o - t - -
[Many]		
Latin	271533211514	m u l t u s
French	2715----	m u - - - -
Spanish	2715-446-	m u - f o -
Italian	27633216-	m o l t o -
PortugueseBrazil	279193-2115	m ũ j - t u
Portuguese	279193-2115	m ũ j - t u
Catalan	27633---	m o l - - -
Walloon		
Friulian	2763365--	m o l c - -
Romanian	27153321--	m u l t - -
[Many]		
Latin	212813211514	t a n t u s
French		
Spanish	212813216-	t a n t o -
Italian	212813216-	t a n t o -
PortugueseBrazil	2143-2115-	t ě - t u -
Portuguese	2143-2115-	t ě - t u -
Catalan	21281321--	t a n t - -
Walloon		
Friulian	21281365--	t a n c - -
Romanian		

Appendix 3 - Character File

[Some]

Latin		
French	6-5094--	o - k œ - -
Spanish	2833115136	a l g u n o
Italian	28335015136	a l k u n o
PortugueseBrazil	288191--	a w g ã - -
Portuguese	2868191--	a ł g ã - -
Catalan	433115--	ə l g u - -
Walloon		
Friulian		
Romanian		

[Few]

Latin	4778501514	p a u k u s
French	4779---	p ø - - -
Spanish	476506-	p o k o -
Italian	479506-	p ɔ k o -
PortugueseBrazil	47685015	p o w k u
Portuguese	47685015	p o w k u
Catalan	47950--	p ɔ k - -
Walloon	4760---	p õ - - -
Friulian	47250--	p o: k - -
Romanian		

[Other]

Latin	283321034-	a l t e r -
French	6-21-37-	o - t - ʁ -
Spanish	6-21-296	o - t - r o
Italian	283321-346	a l t - r o
PortugueseBrazil	6821-2915	o w t - r u
Portuguese	6821-2915	o w t - r u
Catalan	283321-294	a l t - r ə
Walloon	60-21---	õ - t - - -
Friulian	283321-347	a l t - r i
Romanian	283321---	a l t - - -

[Other]

Latin	283371514	a l i u s
French		
Spanish		
Italian		
PortugueseBrazil	288---	a w - - -
Portuguese	2868---	a ł - - -
Catalan		
Walloon		
Friulian		
Romanian		

[Big]

Latin	27281131514	m a g n u s
French		
Spanish	2728-396-	m a - ɲ o -
Italian	272839396-	m a ɲ ɲ o -
PortugueseBrazil		
Portuguese		
Catalan		

Appendix 3 - Character File

Walloon
Friulian
Romanian

[Big]

Latin	134281324027	g r a n d e m
French	13741----	g ʁ ã - - - -
Spanish	1292813240-	g r a n d e -
Italian	1342813240-	g r a n d e -
PortugueseBrazil	12943-107-	g r ã - ð i -
Portuguese	12943-2445-	g r ã - d i -
Catalan	1342813---	g r a n - - -
Walloon	13741----	g ʁ ã - - - -
Friulian	134281321--	g r a n t - -
Romanian		

[Big]

Latin	275512234027	m a j j o: r e m
French		
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	2728---290	m a - - - r e

[Long]

Latin	336-1311514	l o - n g u s
French	3389-----	l ɔ̃ - - - - -
Spanish	336-1316-	l o - n g o -
Italian	3315-1316-	l u - n g o -
PortugueseBrazil	3360-115--	l õ - g u - -
Portuguese	3360-115--	l õ - g u - -
Catalan	366-75---	l o - ŋ - - -
Walloon	3360-----	l õ - - - - -
Friulian	33151350---	l u n k - - -
Romanian	3315131---	l u n g - - -

[Long]

Latin	33283411514	l a r g u s
French	3328373--	l a ʁ ʒ - -
Spanish	332829856-	l a r y o -
Italian	33283416-	l a r g o -
PortugueseBrazil	332837115-	l a ʁ g u -
Portuguese	332829115-	l a r g u -
Catalan	36282950--	l a r k - -
Walloon		
Friulian	33283450--	l a r k - -
Romanian	3328341--	l a r g - -

[Wide]

Latin	3352211514	l a: t u s
French	330---	l e - - -
Spanish	3328216-	l a t o -

Appendix 3 - Character File

Italian	3328216-	l a t o -
PortugueseBrazil	33282115-	l a t u -
Portuguese	33282115-	l a t u -
Catalan		
Walloon		
Friulian		
Romanian	332821--	l a t - -
[Wide]		
Latin	282747331514	a m p l u s
French	41-4733--	ã - p l - -
Spanish	281344-6-	a n t̃ - o -
Italian	282747126-	a m p j o -
PortugueseBrazil	43-17-15-	ẽ - f - u -
Portuguese	43-17-15-	ẽ - f - u -
Catalan	282747334-	a m p l ə -
Walloon		
Friulian		
Romanian		
[Thick]		
Latin	50342814141514	k r a s s u s
French	13784----	g x a - - - -
Spanish	12928-146-	g r a - s o -
Italian	1342814146-	g r a s s o -
PortugueseBrazil		
Portuguese	12928-1715-	g r a - f u -
Catalan	12928-14--	g r a - s - -
Walloon		
Friulian	1342814---	g r a s - - -
Romanian	1342814---	g r a s - - -
[Thick]		
Latin	-1447714141514	- s p i s s u s
French	0-470----	e - p e - - - -
Spanish	014470146--	e s p e s o - -
Italian	-1447014146-	- s p e s s o -
PortugueseBrazil	7144732-1415-	i s p ε - s u -
Portuguese	717470-1415-	i f p e - s u -
Catalan	4144732-14--	ə s p ε - s - -
Walloon	-144732----	- s p ε - - - -
Friulian		
Romanian		
[Thick]		
Latin	11534241514	g u r d u s
French		
Spanish	1629246-	g o r d o -
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[Thick]

Latin	1346-14141514	g r o - s s u s
French	1376-----	g r o - - - - -
Spanish		
Italian	1349-14146-	g r o - s s o -
PortugueseBrazil	1296--1415-	g r o - - s u -
Portuguese	1296--1415-	g r o - - s u -
Catalan	1299--14--	g r o - - s - -
Walloon		
Friulian	13483214---	g r w e s - - -
Romanian	1346-14---	g r o - s - - -

[Heavy]

Latin	13428--8714	g r a - - w i s
French	1377123225--	g r i j e f - -
Spanish	12928--200-	g r a - - b e -
Italian	13432--190-	g r e - - v e -
PortugueseBrazil	12928--197-	g r a - - v i -
Portuguese	12928--1945-	g r a - - v i -
Catalan	1290--8--	g r e - - w - -
Walloon	13428--19--	g r a - - v - -
Friulian	13432--197-	g r e - - v i -
Romanian	1290--8--	g r e - - w - -

[Heavy]

Latin	331534241514	l u r d u s
French	331537---	l u r - - -
Spanish	33029246-	l e r d o -
Italian	33634246-	l o r d o -
PortugueseBrazil	33029246-	l e r d o -
Portuguese	33029246-	l e r d o -
Catalan		
Walloon		
Friulian		
Romanian		

[Small]

Latin	47721217211514	p i t t i t u s
French	474-217---	p a - t i - - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan	474-21721--	p a - t i t - -
Walloon	477-217---	p i - t i - - -
Friulian		
Romanian		

[Small]

Latin	47721217131514	p i t t i n u s
French		
Spanish	470-500396-	p e - k e n o -
Italian	47721447136-	p i t t i n o -
PortugueseBrazil	470-5001315-	p e - k e n u -
Portuguese	4745-5001315-	p i - k e n u -
Catalan		

Appendix 3 - Character File

Walloon		
Friulian		
Romanian	4715-51713--	p u - t s i n - -
[Small]		
Latin	477-2115331514	p i - t u l u s
French		
Spanish		
Italian	47750506336-	p i k k o l o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian	477-441533--	p i - t f u l - -
Romanian		
[Short]		
Latin	501534211514	k u r t u s
French	501537---	k u æ - - -
Spanish	50629216-	k o r t o -
Italian	50634216-	k o r t o -
PortugueseBrazil	5015372115-	k u æ t u -
Portuguese	5015292115-	k u r t u -
Catalan	50152921--	k u r t - -
Walloon	502237---	k u: æ - - -
Friulian	50153421--	k u r t - -
Romanian		
[Short]		
Latin	203408714	b r e w i s
French	20373225--	b æ f - -
Spanish	20290200-	b r e b e -
Italian	203432190-	b r e v e -
PortugueseBrazil	202932197-	b r e v i -
Portuguese	2029321945-	b r e v i -
Catalan	202908--	b r e w - -
Walloon	2037025--	b æ f - -
Friulian		
Romanian		
[Narrow]		
Latin	281311514211514	a n g u s t u s
French		
Spanish	28131614216-	a n g o s t o -
Italian	281311514216-	a n g u s t o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	45751151421--	i ŋ g u s t - -
[Narrow]		
Latin	-142134-7-50211514	- s t r - i - k t u s
French	0-2137828-----	e - t æ w a - - - -
Spanish	0142129-0--446-	e s t r - e - - t f o -

Appendix 3 - Character File

Italian	-142134-0-21216-	- s t r - e - t t o -
PortugueseBrazil	7142129-58--2115-	i s t r - ej - - t u -
Portuguese	45172129-59--2115-	i ſ t r - ej - - t u -
Catalan	4142129-32--21--	ə s t r - ε - - t - -
Walloon	-142137-72-----	- s t r - ø: - - - -
Friulian	-142134-32--21--	- s t r - ε - - t - -
Romanian	-142134-4527-21--	- s t r - i m - t - -

[Thin]

Latin	2771322-211514	m i n u: - t u s
French	2741323----	m ə n y - - - -
Spanish	2701315-246-	m e n u - d o -
Italian	2771315-216-	m i n u - t o -
PortugueseBrazil	277-15-2415-	m i - u - d u -
Portuguese	277-15-4915-	m i - u - ð u -
Catalan	2741315-21--	m ə n u - t - -
Walloon	2771315----	m i n u - - - -
Friulian	2771322-21--	m i n u: - t - -
Romanian	27434151321--	m ə r u n t - -

[Thin]

Latin	24263375052211514	d e: l i k a: t u s
French	2422--326---	d u: - - ʒ e: - - -
Spanish	24033-8528496-	d e l - ʎ a ð o -
Italian	2403375028216-	d e l i k a t o -
PortugueseBrazil	2408-1282415-	d e w - g a d u -
Portuguese	243268-85284915-	d ε ł - ʎ a ð u -
Catalan	244337502821--	d ə l i k a t - -
Walloon		
Friulian		
Romanian		

[Thin]

Latin	141520213833027	s u b t i: l e m
French		
Spanish	1415-21733--	s u - t i l - -
Italian	14621217330-	s o t t i l e -
PortugueseBrazil	1415-4478--	s u - tʃ i w - -
Portuguese	1415-4478--	s u - tʃ i w - -
Catalan	14154721733--	s u p t i l - -
Walloon	1422-217---	s u: - t i - - -
Friulian	1415-213833--	s u - t i: l - -
Romanian	141520517340-	s u b t s i r e -

[Warm]

Latin	5028337241514	k a l i d u s
French	176-----	ʃ o - - - -
Spanish	502833-246-	k a l - d o -
Italian	502833-246-	k a l - d o -
PortugueseBrazil	50288-2415-	k a w - d u -
Portuguese	502833-2415-	k a l - d u -
Catalan	502868----	k a ł - - - -
Walloon	4460-----	tʃ ð - - - -
Friulian	652833-21--	c a l - t - -
Romanian	502833-24--	k a l - d - -

Appendix 3 - Character File

[Cold]

Latin	2534-3817241514	f r - i: g i d u s
French	2537828-----	f ʁ w a - - - - -
Spanish	2529-7---6-	f r - i - - - o -
Italian	2534-024-246-	f r - e d - d o -
PortugueseBrazil	2529-7---15-	f r - i - - - u -
Portuguese	2529-7---15-	f r - i - - - u -
Catalan	2529-32--21--	f r - ε - - t - -
Walloon	2554832-----	f ʀ w ε - - - - -
Friulian	2534-26--21--	f r - e: - - t - -
Romanian		

[Cold]

Latin	34050-01321027	r e k - e n t e m
French		
Spanish	3405712013210-	r e θ j e n t e -
Italian	34044-3213210-	r e ʃ - ε n t e -
PortugueseBrazil	37014-64-447-	ʁ e s - ě - ʃ i -
Portuguese	37014-64-447-	ʁ e s - ě - ʃ i -
Catalan		
Walloon		
Friulian	34051-71321--	r e t s - i n t - -
Romanian	34044-0----	r e ʃ - e - - - -

[Full]

Latin	473326131514	p l e: n u s
French	473362---	p l ě - - -
Spanish	-360136-	- ʎ e n o -
Italian	471256136-	p j ε: n o -
PortugueseBrazil	17-59-15-	ʃ - vj - u -
Portuguese	17-59-15-	ʃ - vj - u -
Catalan	476832---	p ł ε - - -
Walloon	473364---	p l ě - - -
Friulian	47333213--	p l ε n - -
Romanian	4733713--	p l i n - -

[New]

Latin	13-681514	n - o w u s
French	13-15196-	n - u v o -
Spanish	1380676-	n w e β o -
Italian	13-9196-	n - ɔ v o -
PortugueseBrazil	13-61915-	n - o v u -
Portuguese	13-61915-	n - o v u -
Catalan	13-98--	n - ɔ w - -
Walloon	13-91932-	n - ɔ v ε -
Friulian	39-2225--	n - u: f - -
Romanian	13-68--	n - o w - -

[Old]

Latin	8-02115331514	w - e t u l u s
French	191279-----	v j ø - - - - -
Spanish	20120356---	b j e x o - - -
Italian	19-3250-50126	v - ε k - k j o
PortugueseBrazil	19-59--3615-	v - vj - - ʎ u -
Portuguese	19-0--3615-	v - e - - ʎ u -
Catalan	19-0--36--	v - e - - ʎ - -

Appendix 3 - Character File

Walloon	1938-----	v i - - - - -
Friulian	19120---7-	v j e - - - i -
Romanian	19-081----	v - e k' - - - -
[Good]		
Latin	20-6131514	b - o n u s
French	20-60---	b - ð - - -
Spanish	2080136-	b w e n o -
Italian	20873136-	b w ɔː n o -
PortugueseBrazil	20-60---	b - ð - - -
Portuguese	20-60---	b - ð - - -
Catalan	20-913--	b - ɔ n - -
Walloon	20-60---	b - ð - - -
Friulian	20-913--	b - ɔ n - -
Romanian	20-1513--	b - u n - -
[Bad]		
Latin	2728331514	m a l u s
French	272833--	m a l - -
Spanish	2728336-	m a l o -
Italian	2728336-	m a l o -
PortugueseBrazil	27288--	m a w - -
Portuguese	27288--	m a w - -
Catalan	272833--	m a l - -
Walloon	2773---	m ɔː - - -
Friulian	275233--	m aː l - -
Romanian		
[Rotten]		
Latin	471521347241514	p u t r i d u s
French		
Spanish	47649297496-	p o ð r i ð o -
Italian	471521347246-	p u t r i d o -
PortugueseBrazil		
Portuguese		
Catalan	47154929721--	p u ð r i t - -
Walloon		
Friulian		
Romanian	47152134024--	p u t r e d - -
[Rotten]		
Latin	47152134027	p u t r e m
French		
Spanish	47649290-	p o ð r e -
Italian		
PortugueseBrazil	47624297-	p o d r i -
Portuguese	476492945-	p o ð r i -
Catalan		
Walloon		
Friulian		
Romanian		
[Dirty]		
Latin	14634247241514	s o r d i d u s
French		
Spanish	14629247246-	s o r d i d o -

Appendix 3 - Character File

Italian	14934247246-	s ɔ r d i d o -
PortugueseBrazil	149292472415-	s ɔ r d i d u -
Portuguese	149292472415-	s ɔ r d i d u -
Catalan		
Walloon		
Friulian		
Romanian		
[Dirty]		
Latin	-14471534651514	- s p u r c u s
French		
Spanish		
Italian	-1447934506-	- s p ɔ r k o -
PortugueseBrazil	7144715295015-	i s p u r k u -
Portuguese	7174715295015-	i ʃ p u r k u -
Catalan		
Walloon		
Friulian	-144793450--	- s p ɔ r k - -
Romanian	-1447153450--	- s p u r k - -
[Straight]		
Latin	243834-2650211514	d i r - e : k t u s
French	24-37828----	d - ʁ w a - - - -
Spanish		
Italian	24-34-721216-	d - r - i t t o -
PortugueseBrazil	10729-58-2115-	ʒ i r - e j - t u -
Portuguese	24729-59-2115-	d i r - ɐ j - t u -
Catalan	24-29-32-21--	d - r - ɛ - t - -
Walloon	24-34-72----	d - r - ø : - - - -
Friulian	24-34-32-21--	d - r - ɛ - t - -
Romanian	24-34-04721--	d - r - e p t - -
[Round]		
Latin	346211513241514	r o t u n d u s
French	3760-----	ʁ ð - - - - -
Spanish	34024613246-	r e d o n d o -
Italian	34721613246-	r i t o n d o -
PortugueseBrazil	3702460-2415-	ʁ e d ð - d u -
Portuguese	37452460-2415-	ʁ i d ð - d u -
Catalan	344246----	r ə d o - - - -
Walloon	3460-----	r ð - - - - -
Friulian	21283491321--	t a r ɔ n t - -
Romanian	34421151324--	r ə t u n d - -
[SharpAsAKnife]		
Latin	285022211514	a k u : t u s
French		
Spanish	288515496-	a γ u ð o -
Italian		
PortugueseBrazil		
Portuguese	3085154915-	ɐ γ u ð u -
Catalan	411521--	ə g u t - -
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[DullAsAKnife]

Latin	61020021027	h e b e t e m
French		
Spanish		
Italian	-32200210-	- ε b e t e -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

[DullAsAKnife]

Latin	3402122141514	r e t u : s u s
French		
Spanish		
Italian	3402115486-	r e t u z o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		

[Smooth]

Latin	1415528027	s u a : w e m
French		
Spanish		
Italian	14628190-	s o a v e -
PortugueseBrazil		
Portuguese		
Catalan	1415288--	s u a w - -
Walloon		
Friulian		
Romanian		

[Smooth]

Latin	137217241514	n i t i d u s
French	133221----	n ε t - - - -
Spanish	137497-6-	n i ð i - o -
Italian	13021-216-	n e t - t o -
PortugueseBrazil	13321015---	n ε ð u - - -
Portuguese	13321015---	n ε ð u - - -
Catalan	133221----	n ε t - - - -
Walloon		
Friulian	133221----	n ε t - - - -
Romanian	13021024--	n e t e d - -

[Wet]

Latin	22277241514	u : m i d u s
French		
Spanish		
Italian	15277246-	u m i d o -
PortugueseBrazil		
Portuguese		
Catalan		

Appendix 3 - Character File

Walloon		
Friulian	1527724--	u m i d - -
Romanian	1527024--	u m e d - -
[Wet]		
Latin	22241514	u: d u s
French		
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	1524--	u d - -
[Dry]		
Latin	14750501514	s i k k u s
French	1432-50--	s ε - k - -
Spanish	140-506-	s e - k o -
Italian	14050506-	s e k k o -
PortugueseBrazil	140-5015-	s e - k u -
Portuguese	140-5015-	s e - k u -
Catalan	143250---	s ε k - - -
Walloon	1432-44--	s ε - tʃ - -
Friulian	1432-50--	s ε - k - -
Romanian	14050---	s e k - - -
[Correct]		
Latin	50634342650211514	k o r r e: k t u s
French		
Spanish		
Italian	5063434021216-	k o r r e t t o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Near]		
Latin	4734650147--271514	p r o k s i - - m u s
French		
Spanish	4729635-7--276-	p r o x - i - - m o -
Italian	4734914147--276-	p r o s s i - - m o -
PortugueseBrazil	47296-147--2715-	p r o - s i - - m u -
Portuguese	47296-147--2715-	p r o - s i - - m u -
Catalan	47296---748270-	p r o - - - i z m e -
Walloon		
Friulian	47346-147--27--	p r o - s i - - m - -
Romanian		
[Near]		
Latin	28244734647340	a d p r o p r e
French		
Spanish		

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Italian		
PortugueseBrazil		
Portuguese		
Catalan	4-4729947--	ə - p r ə p - -
Walloon		
Friulian		
Romanian	28-47344047-0	a - p r ɔap - e
[Near]		
Latin	4734014141514	p r e s s u s
French	47370----	p ʁ e - - - -
Spanish		
Italian	47343214146-	p r e s s o -
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	473432----	p r e - - - -
Friulian		
Romanian		
[Near]		
Latin	8-385038131514	w - i : k i : n u s
French	198284862---	v w a z ẽ - - -
Spanish	20-0577136-	b - e θ i n o -
Italian	19-7447136-	v - i ʃ i n o -
PortugueseBrazil	19-74873915-	v - i z i ɲ u -
Portuguese	19-74873915-	v - i z i ɲ u -
Catalan	20-4-7---	b - ə - i - - -
Walloon	19-7364---	v - i ʒ ẽ - - -
Friulian	19-744713--	v - i ʃ i n - -
Romanian	19-044713--	v - e ʃ i n - -
[Near]		
Latin	507345028	k i r k a
French	570295028	θ e r k a
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[Far]		
Latin		
French	33862-2162--	l w ẽ - t ẽ - -
Spanish		
Italian	33-6132128136	l - o n t a n o
PortugueseBrazil		
Portuguese		
Catalan	36-15132128--	ʎ - u n t a - -
Walloon		
Friulian	33-613212813-	l - o n t a n -
Romanian		

Appendix 3 - Character File

[Right]

Latin	24-0501421341527	d - e k s t r u m
French		
Spanish	24120-1421296-	d j e - s t r o -
Italian	24-32-1421346-	d - ε - s t r o -
PortugueseBrazil	24-32-14212915-	d - ε - s t r u -
Portuguese	24-32-17212915-	d - ε - ʃ t r u -
Catalan	24-0-1421294-	d - e - s t r ə -
Walloon		
Friulian	24120-1421347-	d j e - s t r i -
Romanian		

[Left]

Latin	14713-71421341527	s i n - i s t r u m
French	14413-32142137--	s ə n - ε s t ʁ - -
Spanish	147131201421296-	s i n j e s t r o -
Italian	14713-01421346-	s i n - e s t r o -
PortugueseBrazil	14---3217212915-	s - - - ε ʃ t r u -
Portuguese	14---3217212915-	s - - - ε ʃ t r u -
Catalan		
Walloon		
Friulian	14739-01421347-	s i ɲ - e s t r i -
Romanian		

[Red]

Latin	341514141514	r u s s u s
French	3715----	ʁ u - - - -
Spanish	346-356-	r o - x o -
Italian	34614146-	r o s s o -
PortugueseBrazil	376-1795-	ʁ o - ʃ u -
Portuguese	376-1715-	ʁ o - ʃ u -
Catalan	346-14--	r o - s - -
Walloon		
Friulian	349-14--	r ɔ - s - -
Romanian	296-1715-	r o - ʃ u -

[Red]

Latin	190342775015331514	v e r m i k u l u s
French	1932372786-----	v ɛ ʁ m ɛ j - - - - -
Spanish	20029270356---	b e r m e x o - - -
Italian	1903427736-366-	v e r m i ʎ - ʎ o -
PortugueseBrazil	19037270--3615-	v e ʁ m e - - ʎ u -
Portuguese	1945292759--3615-	v i r m ɛ j - - ʎ u -
Catalan	204342732--36--	b ə r m ɛ - - ʎ - -
Walloon		
Friulian		
Romanian		

[Red]

Latin	3415-2001514	r u - b e u s
French	3715-3---	ʁ u - ʒ - - -
Spanish	3415-20126-	r u - b j o -
Italian	3492020126-	r ɔ b b j o -
PortugueseBrazil	3415-2006-	r u - b e o -
Portuguese	3415-2006-	r u - b e o -
Catalan	3415-100--	r u - ɕ e - -

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Walloon	349-44---	r ɔ - ʃ - - -
Friulian		
Romanian	3418-20---	r oj- b - - -
[Green]		
Latin	8734724027	w i r i d e m
French	19037----	v e ʁ - - - -
Spanish	20029-240-	b e r - d e -
Italian	19034-240-	v e r - d e -
PortugueseBrazil	19029-2445-	v e r - d i -
Portuguese	19029-2445-	v e r - d i -
Catalan	193229-21--	v ɛ r - t - -
Walloon	193237----	v ɛ ʁ - - - -
Friulian	193234-21--	v ɛ r - t - -
Romanian	19029-240-	v e r - d e -
[Yellow]		
Latin	12833207131514	g a l b i n u s
French	36---13--	ʒ o - - - n - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		
Walloon	1032---13--	ʤ ɛ - - - n - -
Friulian		
Romanian	1283320013--	g a l b e n - -
[Yellow]		
Latin	2827283403331514	a m a r e l l u s
French		
Spanish	282728297-56-	a m a r i - j o -
Italian		
PortugueseBrazil	3027282932-3315-	ɐ m a r ɛ - l u -
Portuguese	3027302932-3315-	ɐ m ɐ r ɛ - l u -
Catalan		
Walloon		
Friulian		
Romanian		
[Yellow]		
Latin	503465001514	k r o k e u s
French		
Spanish		
Italian	503464406-	k r o ʃ ɛ o -
PortugueseBrazil		
Portuguese		
Catalan	129950---	g r ɔ k - - -
Walloon		
Friulian		
Romanian		
[White]		
Latin	2833201514	a l b u s
French		
Spanish	2833206-	a l b o -

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Italian	2833206-	a l b o -
PortugueseBrazil	2881915-	a w v u -
Portuguese	28331915-	a l v u -
Catalan	283320--	a l b - -
Walloon		
Friulian		
Romanian	283320--	a l b - -
[One]		
Latin	22131514	u: n u s
French	94---	œ - - -
Spanish	15136-	u n o -
Italian	15136-	u n o -
PortugueseBrazil	91---	ũ - - -
Portuguese	91---	ũ - - -
Catalan	1513--	u n - -
Walloon	60---	õ - - -
Friulian	1575--	u ŋ - -
Romanian	151315-	u n u -
[Two]		
Latin	2415214	d u o: s
French	24-79-	d - ø -
Spanish	24-614	d - o s
Italian		
PortugueseBrazil	24-1814	d - o j s
Portuguese	24-1817	d - o j f
Catalan	24-614	d - o s
Walloon	24-72-	d - ø: -
Friulian	24-18-	d - o j -
Romanian	24-18-	d - o j -
[Two]		
Latin	2415-55	d u - a j
French		
Spanish		
Italian	2415-0	d u - e
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian	24684	d o w ə
[Two]		
Latin	24152814	d u a s
French		
Spanish		
Italian		
PortugueseBrazil	24153014	d u e s
Portuguese	24153017	d u e f
Catalan		
Walloon		
Friulian		
Romanian		

Appendix 3 - Character File

[Three]

Latin	2134-2614	t r - e: s
French	2137884-	t ʁ w a -
Spanish	2129-014	t r - e s
Italian	2134-0-	t r - e -
PortugueseBrazil	2129-014	t r - e s
Portuguese	2129-017	t r - e ʃ
Catalan	2134-3214	t r - ε s
Walloon	2134-72-	t r - ø: -
Friulian	2134-26-	t r - e: -
Romanian	2134-58-	t r - ej -

[Four]

Latin	87-2821218634-	kʷ - a t t w o r -
French	50-28-21--37-	k - a - t - - ʁ -
Spanish	50828-21--296	k w a - t - - r o
Italian	508282121--346	k w a t t - - r o
PortugueseBrazil	50828-21--2915	k w a - t - - r u
Portuguese	50828-21--2915	k w a - t - - r u
Catalan	50828-21--294	k w a - t - - r ə
Walloon	50828-21----	k w a - t - - - -
Friulian	50828-21--347	k w a - t - - r i
Romanian	47-28-21--3415	p - a - t - - r u

[Five]

Latin	87381387-0	kʷi: n kʷ - e
French	1464-50--	s ẽ - k - -
Spanish	5771350-6	θ i n k - o
Italian	447755080	ʧ i ŋ k w e
PortugueseBrazil	1442-50-15	s i - k - u
Portuguese	1442-50-15	s i - k - u
Catalan	1477550--	s i ŋ k - -
Walloon	1464-50--	s ẽ - k - -
Friulian	4477550--	ʧ i ŋ k - -
Romanian	4471344--	ʧ i n ʧ - -

[Here]

Latin	050501527613850	e k k u m h i: k
French		
Spanish	28-50---7-	a - k - - - i -
Italian	--508--7-	- - k w - - i -
PortugueseBrazil	28-50---7-	a - k - - - i -
Portuguese	30-50---7-	ɐ - k - - - i -
Catalan	28-50---7-	a - k - - - i -
Walloon		
Friulian	28-50---7-	a - k - - - i -
Romanian		

[There]

Latin	733335250	i l l a: k
French	--3328-	- - l a -
Spanish	28-528-	a - j a -
Italian	--3328-	- - l a -
PortugueseBrazil	--3328-	- - l a -
Portuguese	--3328-	- - l a -
Catalan	4-3628-	ə - ʎ a -

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Walloon	--3328-	- - l a -
Friulian		
Romanian	--3328-	- - l a -
[There]		
Latin	72038	i b i:
French		
Spanish		
Italian	-197	- v i
PortugueseBrazil		
Portuguese		
Catalan		
Walloon		
Friulian		
Romanian		
[There]		
Latin		
French		
Spanish	287	a i
Italian		
PortugueseBrazil	287	a i
Portuguese	307	e i
Catalan		
Walloon		
Friulian		
Romanian		
[Who]		
Latin	87-714	k ^w - i s
French	50-7-	k - i -
Spanish		
Italian	50-7-	k - i -
PortugueseBrazil		
Portuguese		
Catalan	50-7-	k - i -
Walloon	50-38-	k - i: -
Friulian	5087-	k w i -
Romanian		
[Who]		
Latin	87-027-	k ^w - e m -
French		
Spanish	5012013-	k j e n -
Italian		
PortugueseBrazil	50-46--	k - ěj - -
Portuguese	50-53--	k - ěj - -
Catalan		
Walloon		
Friulian		
Romanian	44-7130	tʃ - i n e
[What]		
Latin	87-724	k ^w - i d
French	50828-	k w a -
Spanish	50-0-	k - e -

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Italian	50-0-	k - e -
PortugueseBrazil	50-7-	k - i -
Portuguese	50-45-	k - i -
Catalan	50-32-	k - ε -
Walloon	50856-	k w ε: -
Friulian	44-0-	ʃf - e -
Romanian	44-0-	ʃf - e -
[When]		
Latin	87-2813242	k ^w - a n d o:
French	50-41---	k - ã - -
Spanish	5082813246	k w a n d o
Italian	5082813246	k w a n d o
PortugueseBrazil	50843-2415	k w ã - d u
Portuguese	50843-2415	k w ã - d u
Catalan	5082813--	k w a n - -
Walloon	508281324-	k w a n d -
Friulian	508281321-	k w a n t -
Romanian	50-451324-	k - i n d -
[How]		
Latin	872276246	k ^w o: m o d o
French	5092741--	k ɔ m ã - -
Spanish	506276--	k o m o - -
Italian	506270--	k o m e - -
PortugueseBrazil	5062715--	k o m u - -
Portuguese	5062715--	k o m u - -
Catalan	50927---	k ɔ m - - -
Walloon	5092762--	k ɔ m ã - -
Friulian	440272221-	ʃf e m u: t -
Romanian	501527---	k u m - - -
[Not]		
Latin	13213	n o: n
French	1389-	n ɔ̃ -
Spanish	136-	n o -
Italian	13613	n o n
PortugueseBrazil	1363-	n ẽwĩ
Portuguese	1363-	n ẽwĩ
Catalan	136-	n o -
Walloon	1389-	n ɔ̃ -
Friulian	136-	n o -
Romanian	1315-	n u -
[Not]		
Latin	13050	n e k
French	137-	n i -
Spanish	137-	n i -
Italian	130-	n e -
PortugueseBrazil	1346-	n ẽj -
Portuguese	1353-	n ẽj -
Catalan	137-	n i -
Walloon	1364-	n ẽ -
Friulian		
Romanian		

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[At]		
Latin	2824	a d
French	28-	a -
Spanish	28-	a -
Italian	28-	a -
PortugueseBrazil	28-	a -
Portuguese	30-	e -
Catalan	28-	a -
Walloon	28-	a -
Friulian	28-	a -
Romanian	28-	a -
[In]		
Latin	713	i n
French		
Spanish	013	e n
Italian	713	i n
PortugueseBrazil	46-	ẽj -
Portuguese	53-	ũj -
Catalan	413	ə n
Walloon		
Friulian		
Romanian	4513	i n
[In]		
Latin	240713211514	d e i n t u s
French	2441-----	d ã - - - -
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan	247-13--14	d i - n - - s
Walloon		
Friulian		
Romanian		
[With]		
Latin	501527	k u m
French		
Spanish	50613	k o n
Italian	50613	k o n
PortugueseBrazil	5060-	k õ -
Portuguese	5060-	k õ -
Catalan		
Walloon		
Friulian		
Romanian	5015-	k u -
[With]		
Latin	282061665	a b h o c
French	2819-050	a v - e k
Spanish		
Italian		
PortugueseBrazil		
Portuguese		
Catalan		

Appendix 3 - Character File

Walloon	2819-15-	a v - u -
Friulian		
Romanian		
[And]		
Latin	021	e t
French	0-	e -
Spanish	7-	i -
Italian	0-	e -
PortugueseBrazil	7-	i -
Portuguese	7-	i -
Catalan	7-	i -
Walloon	32-	ε -
Friulian	0-	e -
Romanian	0-	e -
[And]		
Latin	143850	s i: k
French	147-	s i -
Spanish	147-	s i -
Italian	147-	s i -
PortugueseBrazil	1442-	s ã -
Portuguese	1442-	s ã -
Catalan	147-	s i -
Walloon	147-	s i -
Friulian	147-	s i -
Romanian	177-	f i -
[Because]		
Latin	87624	k ^w o d
French	504-	k ə -
Spanish	500-	k e -
Italian	500-	k e -
PortugueseBrazil	507-	k i -
Portuguese	5045-	k i -
Catalan	504-	k ə -
Walloon	5038-	k i: -
Friulian	500-	k e -
Romanian	504-	k ə -
;		
end;		