

## Appendix 1 - Tongue Twister Configuration

```
{
  "Tree": "(Latin,(Romanian,(((Walloon,French),(((Portuguese,PortugueseBrazil),Spanish),Catalan)),(
  Friulian,Italian))))";
  "NumberOfStates": 95,
  "McmcSettings": {
    "FileOutput": "/Users/johnh/Desktop/Indelly/out/test_custom",
    "OnlyCompleteWords": "No",
    "Model": "Custom",
    "CalcMarginal": "No",
    "UseEigenSystem": "No",
    "NumCycles": 1000000,
    "PrintFreq": 10,
    "SampleFreq": 100,
    "TreeLengthPriorVal": 0.15
  },
  "Taxa": ["Latin", "French", "Spanish", "Italian", "PortugueseBrazil", "Portuguese", "Catalan", "
  Walloon", "Friulian", "Romanian"],
  "PriorFrequencies": [0.027305,0.025515,0.009400,0.007162,0.009848,0.000895,0.026858,0.041182,
  0.036705,0.015667,0.000448,0.006714,0.040286,0.034915,0.029991,0.039391,0.016562,0.000448,0.012086,
  0.028201,0.030439,0.012981,0.002686,0.020591,0.019696,0.009400,0.042972,0.038496,0.011638,0.000895,
  0.001343,0.016562,0.030439,0.019696,0.008505,0.002238,0.002238,0.014324,0.018800,0.000448,0.025067,
  0.000448,0.003581,0.000895,0.008057,0.000448,0.000448,0.007162,0.038496,0.013429,0.002238,0.040286,
  0.000448,0.013429,0.000448,0.000448,0.000448,0.004924,0.001791,0.000448,0.000448,0.004924,0.003581,
  0.000448,0.004924,0.006267,0.000448,0.004476,0.000448,0.000895,0.000448,0.004476,0.000895,0.004476,
  0.002686,0.028201,0.000895,0.002238,0.000448,0.001343,0.000448,0.001343,0.007610,0.005372,0.003133,
  0.006267,0.000448,0.005372,0.000895,0.000448,0.007162,0.004476,0.000448,0.000448,0.006267],
  "PartitionSets": [{"Name": "e", "Set": [0, 25]},{ "Name": "i", "Set": [7, 37]},{ "Name": "a", "Set"
  : [27, 53]},{ "Name": "u", "Set": [15, 21]},{ "Name": "o", "Set": [2, 6]},{ "Name": "ɔ", "Set": [9, 73
  ]},{ "Name": "ɛ", "Set": [31, 57]},{ "Name": "ø", "Set": [72, 79]},{ "Name": "Nasal Vowel", "Set": [41
  , 42, 43, 44, 45, 54, 61, 62, 63, 64, 76, 82, 88, 89, 90, 93]},{ "Name": "Vowel", "Set": [4, 11, 17
  , 22, 29, 30, 39, 47, 56, 59, 60, 66, 70, 78, 80, 84, 86, 94]},{ "Name": "Nasal Consonant", "Set":
  [13, 26, 38, 75, 92]},{ "Name": "Non Syllabic Sonorant", "Set": [8, 12, 32, 33]},{ "Name": "Consonant"
  , "Set": [1, 3, 5, 10, 14, 16, 18, 19, 20, 23, 24, 28, 34, 35, 36, 40, 46, 48, 49, 50, 51, 52, 55,
  58, 65, 67, 68, 69, 71, 74, 77, 81, 83, 85, 87, 91]}],
  "Words": [
    { "Name": "I", "Data": [
      { "Taxon": "Latin", "Segments": [-1, 0, 1, 2]},
      { "Taxon": "French", "Segments": [3, 4, -1, -1]},
      { "Taxon": "Spanish", "Segments": [5, -1, -1, 6]},
      { "Taxon": "Italian", "Segments": [7, -1, -1, 6]},
      { "Taxon": "PortugueseBrazil", "Segments": [-1, 0, -1, 8]},
      { "Taxon": "Portuguese", "Segments": [-1, 0, -1, 8]},
      { "Taxon": "Catalan", "Segments": [3, -1, -1, 9]},
      { "Taxon": "Walloon", "Segments": [10, 11, -1, -1]},
      { "Taxon": "Friulian", "Segments": [12, -1, -1, 6]},
      { "Taxon": "Romanian", "Segments": [12, 0, -1, 8]}
    ]},
    { "Name": "We", "Data": [
      { "Taxon": "Latin", "Segments": [13, 2, -1, 14, -1]},
      { "Taxon": "French", "Segments": [13, 15, -1, -1, -1]},
      { "Taxon": "Spanish", "Segments": [13, 6, -1, 14, -1]},
      { "Taxon": "Italian", "Segments": [13, 2, 7, -1, -1]},
      { "Taxon": "PortugueseBrazil", "Segments": [13, 9, 12, -1, 14]},
      { "Taxon": "Portuguese", "Segments": [13, 9, -1, 16, -1]},
      { "Taxon": "Walloon", "Segments": [13, 6, -1, -1, -1]},
      { "Taxon": "Friulian", "Segments": [13, 2, -1, -1, -1]},
    ]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Portuguese", "Segments": [26, 15, 35, -1, 0, 28, -1]},
  "Taxon": "Catalan", "Segments": [26, 15, 35, -1, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [26, 15, -1, 37, 33, -1, -1]},
  "Taxon": "Romanian", "Segments": [26, 15, -1, 12, 0, 33, 0]}
}],
{
  "Name": "Husband", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 33, 37, 20, 15, 14]},
    {"Taxon": "French", "Segments": [26, 27, 36, 7, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 28, 7, 50, 6, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 33, 7, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 27, 28, 7, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 29, 28, 7, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, 28, 7, 20, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, 33, 37, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 4, 33, 7, 20, -1, -1]}
  ]
},
{
  "Name": "Husband-Sponsus", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 6, 13, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 48, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 6, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 9, -1, 49, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 6, -1, 49, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 48, 6, -1, 49, 15, -1]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 9, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 2, -1, 14, -1, -1]}
  ]
},
{
  "Name": "Husband-Socius", "Data": [
    {"Taxon": "Latin", "Segments": [14, 6, 51, 7, 15, 14]},
    {"Taxon": "Italian", "Segments": [14, 9, 46, -1, 6, -1]},
    {"Taxon": "Romanian", "Segments": [14, 6, 52, -1, -1, -1]}
  ]
},
{
  "Name": "Mother", "Data": [
    {"Taxon": "Latin", "Segments": [26, 53, 20, 33, 0, 26]},
    {"Taxon": "French", "Segments": [26, 0, -1, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 50, 28, 0, -1]},
    {"Taxon": "Italian", "Segments": [26, 53, 23, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 54, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 54, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, -1, 28, 4, -1]},
    {"Taxon": "Walloon", "Segments": [26, 0, -1, 55, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, -1, 33, 7, -1]}
  ]
},
{
  "Name": "Father", "Data": [
    {"Taxon": "Latin", "Segments": [48, 27, 20, 33, 0]},
    {"Taxon": "French", "Segments": [48, 0, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 50, 28, 0]},
    {"Taxon": "Italian", "Segments": [48, 53, 23, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 56, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 56, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [48, 57, -1, 33, -1]},
    {"Taxon": "Friulian", "Segments": [48, 27, -1, 33, 7]}
  ]
},
{
  "Name": "Father-Tata", "Data": [
    {"Taxon": "Latin", "Segments": [20, 27, 20, 27]},
    {"Taxon": "Spanish", "Segments": [20, 27, 20, 27]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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



## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Walloon", "Segments": [2, -1, 19, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [27, 33, 19, 15, 32, -1, -1]},
  "Taxon": "Romanian", "Segments": [27, 33, 19, 6, 33, 0, -1]}
}],
{
  "Name": "Forest", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 32, 8, 27]},
    {"Taxon": "Spanish", "Segments": [14, 0, 32, 19, 27]},
    {"Taxon": "Italian", "Segments": [14, 0, 32, 18, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 31, 8, 18, 27]},
    {"Taxon": "Portuguese", "Segments": [14, 31, 68, 18, 29]},
    {"Taxon": "Catalan", "Segments": [14, 0, 32, 19, 27]},
    {"Taxon": "Friulian", "Segments": [14, 31, 32, 18, 0]}
  ]
},
{
  "Name": "Stick", "Data": [
    {"Taxon": "Latin", "Segments": [48, 53, 32, 15, 14]},
    {"Taxon": "French", "Segments": [48, 27, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 27, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 27, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 27, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, 32, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 53, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 27, 28, -1, -1]}
  ]
},
{
  "Name": "Fruit", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 21, -1, 51, 20, 15, 14]},
    {"Taxon": "French", "Segments": [24, 36, 69, 7, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, 15, -1, -1, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, 15, -1, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, 15, -1, -1, 20, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, 15, -1, -1, 20, 29, -1]},
    {"Taxon": "Catalan", "Segments": [24, 28, 15, 12, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 55, 22, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 33, 15, -1, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 33, 15, -1, 51, 20, -1, -1]}
  ]
},
{
  "Name": "Seed", "Data": [
    {"Taxon": "Latin", "Segments": [14, 25, 26, 0, 13]},
    {"Taxon": "Italian", "Segments": [14, 0, 26, 0, -1]}
  ]
},
{
  "Name": "Seed-Sementis", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 26, -1, 0, 13, 20, 7, 14]},
    {"Taxon": "French", "Segments": [14, 4, 26, -1, 43, -1, -1, -1, 14]},
    {"Taxon": "Spanish", "Segments": [14, 7, 26, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 26, -1, 0, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, 26, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 47, 26, -1, 64, -1, 20, 47, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 26, -1, 0, 13, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 7, 26, -1, 64, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, 26, -1, 31, 13, 46, 31, -1]},
    {"Taxon": "Romanian", "Segments": [14, 4, 26, -1, 47, 13, 46, 4, -1]}
  ]
},
{
  "Name": "Seed-Granum", "Data": [
    {"Taxon": "Latin", "Segments": [1, 33, 53, 13, 15, 26]},
    {"Taxon": "French", "Segments": [1, 36, 31, 13, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, 13, 6, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "French", "Segments": [51, 8, 27, -1, -1, -1, 13, -1]},
  "Taxon": "Italian", "Segments": [51, -1, 6, 20, 0, 13, 13, 27]},
  "Taxon": "PortugueseBrazil", "Segments": [51, -1, 6, 10, 7, -1, -1, 29]},
  "Taxon": "Portuguese", "Segments": [51, -1, 6, 23, 7, -1, -1, 29]},
  "Taxon": "Catalan", "Segments": [51, -1, 6, -1, -1, 13, 13, 4]}
}],
{
  "Name": "Skin-Pellis", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, 32, 32, 0, 26]},
    {"Taxon": "French", "Segments": [48, -1, 6, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 12, 0, 32, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 0, 32, 32, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 31, -1, 32, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 0, -1, 32, 47, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 0, -1, 35, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 12, 27, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 12, 31, 32, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 12, 0, -1, 32, 0, -1]}
  ]
},
{
  "Name": "Meat", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 33, 13, 0, 26]},
    {"Taxon": "French", "Segments": [16, 31, 36, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 28, 13, 0, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 33, 13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 36, 13, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 27, 28, 13, 47, -1]},
    {"Taxon": "Catalan", "Segments": [51, 27, 33, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 73, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 53, 33, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 28, 13, 0, -1]}
  ]
},
{
  "Name": "Meat-Vivenda", "Data": [
    {"Taxon": "Latin", "Segments": [8, 37, 8, -1, 0, 13, 23, 27]},
    {"Taxon": "French", "Segments": [18, 12, -1, -1, 43, -1, 23, -1]},
    {"Taxon": "Spanish", "Segments": [19, 7, 19, 12, 0, 13, 23, 27]},
    {"Taxon": "Italian", "Segments": [18, 7, 18, -1, 27, 13, 23, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 7, 18, -1, 64, -1, 23, 27]},
    {"Taxon": "Portuguese", "Segments": [18, 7, 18, -1, 64, -1, 23, 29]}
  ]
},
{
  "Name": "Blood", "Data": [
    {"Taxon": "Latin", "Segments": [14, 27, 13, 74, -1, 7, 13, 0, 26]},
    {"Taxon": "French", "Segments": [14, 43, -1, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 27, 75, 1, -1, 28, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 27, 13, 1, 8, 0, -1, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 45, -1, 1, -1, 7, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 45, -1, 1, -1, 47, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 27, 75, -1, -1, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 76, -1, 1, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 27, 75, 51, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 47, 13, 10, -1, 0, -1, -1, -1]}
  ]
},
{
  "Name": "Bone", "Data": [
    {"Taxon": "Latin", "Segments": [-1, -1, 6, 14, 14, 15, 26]},
    {"Taxon": "French", "Segments": [-1, -1, 9, -1, 14, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 8, 0, 14, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 9, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [-1, -1, 6, -1, 14, 15, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "French", "Segments": [48, 32, 22, 26, -1]},
  "Taxon": "Spanish", "Segments": [48, 32, 15, 26, 27]},
  "Taxon": "Italian", "Segments": [48, 12, 15, 26, 27]},
  "Taxon": "Catalan", "Segments": [48, 32, 6, 26, 4]},
  "Taxon": "Walloon", "Segments": [48, 32, 9, 26, -1]},
  "Taxon": "Friulian", "Segments": [48, 32, 15, 26, 31]}
}],
{
  "Name": "Feather-Penna", "Data": [
    {"Taxon": "Latin", "Segments": [48, 0, 13, 13, 27]},
    {"Taxon": "French", "Segments": [48, 31, -1, 13, -1]},
    {"Taxon": "Spanish", "Segments": [48, 0, -1, 38, 27]},
    {"Taxon": "Italian", "Segments": [48, 0, 13, 13, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 0, -1, 13, 29]},
    {"Taxon": "Portuguese", "Segments": [48, 0, -1, 13, 29]},
    {"Taxon": "Catalan", "Segments": [48, 31, -1, 38, 4]},
    {"Taxon": "Walloon", "Segments": [48, 0, -1, 13, -1]},
    {"Taxon": "Friulian", "Segments": [48, 31, -1, 13, 0]},
    {"Taxon": "Romanian", "Segments": [48, 27, -1, 13, 4]}
  ]
},
{
  "Name": "Hair", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 7, 32, 15, 14]},
    {"Taxon": "French", "Segments": [48, 8, 27, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, -1, 0, 32, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 0, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 0, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 47, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 31, 32, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, -1, 25, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, -1, 4, 28, -1, -1]}
  ]
},
{
  "Name": "Hair-Capillus", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 48, 7, 32, 32, 15, 14]},
    {"Taxon": "French", "Segments": [16, 4, 18, 79, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 19, 0, -1, 5, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 48, 0, 32, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 19, 0, -1, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 67, 0, -1, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, 19, 31, -1, 35, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 7, 18, 12, -1, -1, 27, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 18, 59, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 48, 7, -1, 20, 7, 27]},
    {"Taxon": "French", "Segments": [16, 4, 18, 31, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 67, 0, -1, 58, -1, 27]},
    {"Taxon": "Italian", "Segments": [51, 27, 18, 0, 20, 20, 14, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 19, 0, -1, 14, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [51, 29, 67, 0, -1, 14, -1, 29]},
    {"Taxon": "Catalan", "Segments": [51, 27, 48, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 53, 24, -1, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 48, -1, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Head-Testa", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 14, 20, 27]},
    {"Taxon": "French", "Segments": [20, 31, -1, 20, -1]},
    {"Taxon": "Italian", "Segments": [20, 31, 14, 20, 27]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Friulian", "Segments": [19, 9, -1, 65, 31]},
  "Taxon": "Romanian", "Segments": [19, 15, -1, 51, 4]}
}],
{
  "Name": "Mouth-Gula", "Data": [
    {"Taxon": "Latin", "Segments": [1, 15, 32, 27]},
    {"Taxon": "French", "Segments": [1, 30, 32, -1]},
    {"Taxon": "Spanish", "Segments": [1, 6, 32, 27]},
    {"Taxon": "Italian", "Segments": [1, 6, 32, 27]},
    {"Taxon": "Catalan", "Segments": [1, 6, 32, 4]},
    {"Taxon": "Walloon", "Segments": [1, 72, 12, -1]},
    {"Taxon": "Friulian", "Segments": [1, 9, 32, 0]},
    {"Taxon": "Romanian", "Segments": [1, 15, 28, 4]}
  ]
},
{
  "Name": "Tooth", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 0, 13, 20, 0, 26]},
    {"Taxon": "French", "Segments": [23, -1, 43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [23, 31, 13, 20, 0, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 64, -1, 46, 7, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 64, -1, 20, 47, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 64, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 7, 13, 20, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, 7, 13, 20, 0, -1, -1]}
  ]
},
{
  "Name": "Fingernail", "Data": [
    {"Taxon": "Latin", "Segments": [15, 13, 1, -1, 15, 32, 27]},
    {"Taxon": "French", "Segments": [61, -1, 1, -1, -1, 32, -1]},
    {"Taxon": "Spanish", "Segments": [15, 38, -1, -1, -1, -1, 27]},
    {"Taxon": "Italian", "Segments": [15, 13, 1, 12, -1, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, 38, -1, -1, -1, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [15, 38, -1, -1, -1, -1, 29]},
    {"Taxon": "Walloon", "Segments": [61, -1, 1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [9, 75, 1, -1, 15, 32, 31]},
    {"Taxon": "Romanian", "Segments": [15, 13, 1, 12, -1, -1, 0]}
  ]
},
{
  "Name": "Foot", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 0, -1, 23, 0, 26]},
    {"Taxon": "French", "Segments": [48, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, 12, 57, -1, 23, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 31, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 31, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 31, 8, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, -1, 37, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, -1, 37, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 7, 0, 49, -1, -1, -1]}
  ]
},
{
  "Name": "Leg-Gamba", "Data": [
    {"Taxon": "Latin", "Segments": [1, 27, 26, 19, 27]},
    {"Taxon": "French", "Segments": [3, 43, -1, 19, -1]},
    {"Taxon": "Spanish", "Segments": [1, 27, 26, 19, 27]},
    {"Taxon": "Italian", "Segments": [1, 27, 26, 19, 27]},
    {"Taxon": "Catalan", "Segments": [51, 27, 26, 19, 4]},
    {"Taxon": "Walloon", "Segments": [10, 82, -1, 48, -1]},
    {"Taxon": "Friulian", "Segments": [83, 27, 26, 19, 0]},
    {"Taxon": "Romanian", "Segments": [1, 27, 26, 19, 4]}
  ]
}
```



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Walloon", "Segments": [18, -1, 62, -1, 20, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [18, 7, 13, 20, 33, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [18, 7, 13, 20, 33, 0, -1, -1]}
}],
{
  "Name": "Belly-Pantex", "Data": [
    {"Taxon": "Latin", "Segments": [48, 27, 13, 20, 7, 51, 0, 26]},
    {"Taxon": "French", "Segments": [48, 43, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 13, 58, -1, -1, -1, 27]},
    {"Taxon": "Italian", "Segments": [48, 27, 13, 46, -1, -1, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 45, -1, 14, -1, -1, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 45, -1, 14, -1, -1, 29, -1]},
    {"Taxon": "Catalan", "Segments": [48, 27, 38, 16, -1, -1, 4, -1]},
    {"Taxon": "Walloon", "Segments": [48, 82, -1, 14, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 27, 13, 52, -1, -1, 0, -1]},
    {"Taxon": "Romanian", "Segments": [48, 47, 13, 20, 0, 46, 0, -1]}
  ]
},
{
  "Name": "Guts", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 20, 0, 33, 53, 13, 0, 27]},
    {"Taxon": "French", "Segments": [43, -1, 20, -1, 36, 27, -1, -1, 12]},
    {"Taxon": "Spanish", "Segments": [0, 13, 20, -1, 28, 27, 38, -1, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 20, -1, 28, 45, 38, -1, 29]},
    {"Taxon": "Portuguese", "Segments": [64, -1, 20, -1, 28, 29, 38, -1, 29]},
    {"Taxon": "Catalan", "Segments": [4, 13, 20, -1, 28, 27, 38, -1, 4]}
  ]
},
{
  "Name": "Neck", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 6, 32, 32, 15, 26]},
    {"Taxon": "French", "Segments": [51, -1, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 8, 0, -1, 5, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 6, 32, 32, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 9, -1, 32, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 9, -1, 32, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 9, -1, 35, -1, -1]},
    {"Taxon": "Friulian", "Segments": [51, 8, 31, -1, 32, -1, -1]}
  ]
},
{
  "Name": "Back", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 6, 33, 14, 15, 26]},
    {"Taxon": "French", "Segments": [23, -1, 6, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 9, 14, 14, 6, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 6, -1, 14, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, -1, 9, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 8, 0, -1, 14, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 6, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Back-Spatula", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 27, 20, 15, 32, 27]},
    {"Taxon": "French", "Segments": [0, -1, 48, 6, -1, -1, 32, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 27, 32, -1, 23, 27]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 27, 32, -1, 32, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 16, 48, 27, 23, -1, 8, 29]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 48, 27, 23, -1, 8, 29]},
    {"Taxon": "Catalan", "Segments": [4, 14, 48, 27, 35, -1, 35, 4]},
    {"Taxon": "Walloon", "Segments": [-1, 14, 48, 27, -1, -1, 32, -1]},
    {"Taxon": "Friulian", "Segments": [-1, 14, 48, 27, -1, -1, 32, 31]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 48, 27, 20, -1, -1, 0]}
  ]
},
{
  "Name": "Breast", "Data": [
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Catalan", "Segments": [48, 32, 15, -1, 3, -1, 4]},
  "Taxon": "Walloon", "Segments": [48, 32, 21, -1, 36, -1, -1]},
  "Taxon": "Friulian", "Segments": [48, 32, 6, -1, -1, 12, 0]},
  "Taxon": "Romanian", "Segments": [48, 32, 39, -1, -1, 12, 0]}
}],
{
  "Name": "River", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 21, 26, 0, 13]},
    {"Taxon": "Italian", "Segments": [24, 12, 15, 26, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 32, 15, 26, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 32, 15, 26, 47, -1]},
    {"Taxon": "Friulian", "Segments": [24, 32, 15, 26, -1, -1]}
  ]
},
{
  "Name": "River-Rivus", "Data": [
    {"Taxon": "Latin", "Segments": [33, 37, 8, 15, 14]},
    {"Taxon": "French", "Segments": [36, 22, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 7, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 7, -1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 7, -1, 8, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 7, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [33, 7, -1, 8, -1]},
    {"Taxon": "Romanian", "Segments": [33, 47, -1, 8, -1]}
  ]
},
{
  "Name": "River-Riparia", "Data": [
    {"Taxon": "Latin", "Segments": [33, 37, 48, -1, 53, 33, 7, 27]},
    {"Taxon": "French", "Segments": [36, 7, 18, 12, 0, 36, -1, -1]},
    {"Taxon": "Walloon", "Segments": [33, 7, 18, 37, -1, 36, -1, -1]}
  ]
},
{
  "Name": "Lake", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 51, 15, 26]},
    {"Taxon": "French", "Segments": [32, 27, 51, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 85, 15, -1]},
    {"Taxon": "Catalan", "Segments": [35, 27, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 27, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 53, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 51, -1, -1]}
  ]
},
{
  "Name": "Sea", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 33, 0]},
    {"Taxon": "French", "Segments": [26, 31, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 27, 33, -1]},
    {"Taxon": "Walloon", "Segments": [26, 0, 36, -1]},
    {"Taxon": "Friulian", "Segments": [26, 53, 33, -1]},
    {"Taxon": "Romanian", "Segments": [26, 27, 33, 0]}
  ]
},
{
  "Name": "Salt", "Data": [
    {"Taxon": "Latin", "Segments": [14, 53, 32, 0, 26]},
    {"Taxon": "French", "Segments": [14, 31, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 27, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 27, 32, 0, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Walloon", "Segments": [13, 37, 24, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [13, -1, 25, 24, -1, -1]},
  "Taxon": "Romanian", "Segments": [13, -1, 80, -1, -1, -1]}
}],
{
  "Name": "Ice", "Data": [
    {"Taxon": "Latin", "Segments": [1, 0, 32, 21]},
    {"Taxon": "French", "Segments": [3, 31, 32, -1]},
    {"Taxon": "Spanish", "Segments": [5, 0, 32, 6]},
    {"Taxon": "Italian", "Segments": [10, 31, 32, 6]},
    {"Taxon": "Catalan", "Segments": [3, 31, 68, -1]},
    {"Taxon": "Romanian", "Segments": [10, 0, 33, -1]}
  ]
},
{
  "Name": "Ice-Glaciers", "Data": [
    {"Taxon": "French", "Segments": [1, 32, 27, -1, 14, -1]},
    {"Taxon": "Italian", "Segments": [1, 12, 27, 20, 46, 27]},
    {"Taxon": "Catalan", "Segments": [1, 32, 27, -1, 14, -1]},
    {"Taxon": "Walloon", "Segments": [1, 32, 31, -1, 14, -1]},
    {"Taxon": "Friulian", "Segments": [1, 32, 27, -1, 46, 0]},
    {"Taxon": "Romanian", "Segments": [1, -1, 80, -1, 52, 4]}
  ]
},
{
  "Name": "Smoke", "Data": [
    {"Taxon": "Latin", "Segments": [24, 21, 26, 15, 14]},
    {"Taxon": "Spanish", "Segments": [-1, 15, 26, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 15, 26, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 15, 26, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 15, 26, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, 15, 26, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 15, 26, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 15, 26, -1, -1]}
  ]
},
{
  "Name": "Fire-Focus", "Data": [
    {"Taxon": "Latin", "Segments": [24, -1, 6, 51, 15, 26]},
    {"Taxon": "French", "Segments": [24, -1, 79, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 8, 0, 1, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 8, 9, 51, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, -1, 6, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, -1, 6, 85, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, -1, 9, 51, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, -1, 72, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, -1, 21, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, -1, 6, 51, -1, -1]}
  ]
},
{
  "Name": "Ash", "Data": [
    {"Taxon": "Latin", "Segments": [51, 7, 13, 0, -1, 33, 0, 26]},
    {"Taxon": "French", "Segments": [14, 43, -1, -1, 23, 36, -1, -1]},
    {"Taxon": "Italian", "Segments": [46, 0, 13, 0, -1, 33, 0, -1]},
    {"Taxon": "Catalan", "Segments": [14, 31, 13, -1, 23, 33, 4, -1]},
    {"Taxon": "Walloon", "Segments": [14, 88, -1, -1, 23, -1, -1, -1]}
  ]
},
{
  "Name": "Ash-Cinisia", "Data": [
    {"Taxon": "Spanish", "Segments": [58, 0, 13, 7, 58, 27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 44, -1, -1, 49, 29, 16]},
    {"Taxon": "Portuguese", "Segments": [14, 44, -1, -1, 49, 29, 16]},
    {"Taxon": "Friulian", "Segments": [46, 7, 13, 7, 49, 31, -1]},
    {"Taxon": "Romanian", "Segments": [46, 0, 13, 15, 16, 4, -1]}
  ]
},
]
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Friulian", "Segments": [38, -1, 9, -1, 20, -1, -1]},
  "Taxon": "Romanian", "Segments": [13, -1, 39, 48, 20, 0, -1]}
}],
{
  "Name": "Day", "Data": [
    {"Taxon": "Latin", "Segments": [23, 7, 25, 14]},
    {"Taxon": "Spanish", "Segments": [23, 7, 27, -1]},
    {"Taxon": "Italian", "Segments": [23, 7, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 7, 29, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 29, -1]},
    {"Taxon": "Catalan", "Segments": [23, 7, 4, -1]},
    {"Taxon": "Walloon", "Segments": [10, 21, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [49, 7, -1, -1]}
  ]
},
{
  "Name": "Day-Diurnus", "Data": [
    {"Taxon": "Latin", "Segments": [23, 7, 15, 33, 13, 15, 26]},
    {"Taxon": "French", "Segments": [3, -1, 15, 36, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 12, 15, 28, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [10, -1, 6, 33, 13, 6, -1]},
    {"Taxon": "Catalan", "Segments": [3, -1, 6, 28, 13, -1, -1]},
    {"Taxon": "Walloon", "Segments": [10, -1, 21, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Day-Diurna", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [3, 9, 36, 13, 27]},
    {"Taxon": "Portuguese", "Segments": [3, 9, 36, 13, 27]}
  ]
},
{
  "Name": "Day-Diurnata", "Data": [
    {"Taxon": "Latin", "Segments": [23, 7, 15, 33, 13, 53, 20, 27]},
    {"Taxon": "French", "Segments": [3, -1, 15, 36, 13, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [34, -1, 6, 28, 13, 27, 23, 27]},
    {"Taxon": "Italian", "Segments": [10, 6, 33, 13, 27, 20, 27, -1]},
    {"Taxon": "Friulian", "Segments": [71, -1, 6, 33, 13, 27, 23, 0]}
  ]
},
{
  "Name": "Year", "Data": [
    {"Taxon": "Latin", "Segments": [27, 13, 13, 15, 26]},
    {"Taxon": "French", "Segments": [43, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, -1, 38, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 13, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [29, -1, 13, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [29, -1, 13, 15, -1]},
    {"Taxon": "Catalan", "Segments": [27, -1, 38, -1, -1]},
    {"Taxon": "Walloon", "Segments": [43, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [27, -1, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [27, 13, -1, -1, -1]}
  ]
},
{
  "Name": "Name-Nomen", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 26, 0, 13]},
    {"Taxon": "French", "Segments": [13, 42, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [13, 2, 26, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 6, 26, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 6, 26, 47, -1]},
    {"Taxon": "Catalan", "Segments": [13, 9, 26, -1, -1]},
    {"Taxon": "Walloon", "Segments": [13, 61, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 9, 75, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, 26, 0, -1]}
  ]
},
]
```

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Name": "Name-Nominem", "Data": [
    {"Taxon": "Latin", "Segments": [13, 2, 26, 7, 13, -1, 0, 26]},
    {"Taxon": "Spanish", "Segments": [13, 6, 26, -1, 19, 28, 0, -1]}
  ]},
{
  "Name": "Tongue", "Data": [
    {"Taxon": "Latin", "Segments": [32, 7, 13, 74, -1, 27]},
    {"Taxon": "French", "Segments": [32, 43, -1, 1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 0, 75, 1, 8, 27]},
    {"Taxon": "Italian", "Segments": [32, 7, 13, 1, 8, 27]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 44, -1, 1, 8, 29]},
    {"Taxon": "Portuguese", "Segments": [32, 44, -1, 1, 8, 29]},
    {"Taxon": "Walloon", "Segments": [32, 89, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 31, 13, 1, -1, 31]},
    {"Taxon": "Romanian", "Segments": [32, 7, 26, 19, -1, 4]}
  ]},
{
  "Name": "ToDrink", "Data": [
    {"Taxon": "Latin", "Segments": [19, -1, 7, 19, 0, 33, 0]},
    {"Taxon": "French", "Segments": [19, 8, 84, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [19, -1, 0, 19, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [19, -1, 0, -1, -1, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [19, -1, 0, 19, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [19, -1, 47, 67, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 31, 8, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [19, 72, -1, -1, 36, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, -1, 0, 18, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [19, -1, 80, -1, -1, -1, -1]}
  ]},
{
  "Name": "ToEat", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 26, 0, 23, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [51, 6, 26, 0, -1, -1, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 26, 0, -1, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 26, -1, -1, 0, 28, -1]}
  ]},
{
  "Name": "ToEat-Manducare", "Data": [
    {"Taxon": "Latin", "Segments": [26, 27, 13, 23, 15, 51, 53, 33, 0]},
    {"Taxon": "French", "Segments": [26, 43, -1, 3, -1, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 27, 13, 23, 15, 51, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 27, 13, 10, -1, -1, 27, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 45, -1, 3, -1, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 45, -1, 3, -1, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 4, 38, 3, -1, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [26, 27, 38, -1, -1, -1, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 27, 75, 83, -1, -1, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 47, 13, -1, -1, 51, 27, -1, -1]}
  ]},
{
  "Name": "ToBite", "Data": [
    {"Taxon": "Latin", "Segments": [26, -1, 6, 33, 23, 25, 33, 0]},
    {"Taxon": "French", "Segments": [26, -1, 6, 36, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, -1, 6, 28, 50, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, -1, 9, 33, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, -1, 6, 36, 23, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, -1, 15, 28, 50, 0, 28, -1]},
    {"Taxon": "Friulian", "Segments": [26, 8, 27, 33, 23, 7, -1, -1]}
  ]},
{
  "Name": "ToBite-Morsicare", "Data": [
    {"Taxon": "Latin", "Segments": [26, 6, 33, 14, 7, 51, 53, 33, 0]},
  ]}
}
```



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "PortugueseBrazil", "Segments": [16, -1, 59, -1, 28, 27, 36, -1]},
  "Taxon": "Portuguese", "Segments": [16, -1, 60, -1, 28, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [24, 32, 4, 12, 28, 27, -1, -1]}
}],
{
  "Name": "ToFear", "Data": [
    {"Taxon": "Latin", "Segments": [20, 7, 26, 25, 33, 0]},
    {"Taxon": "Spanish", "Segments": [20, 0, 26, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 0, 26, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 0, 26, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 47, 26, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 0, 26, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 0, 26, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 0, 26, 0, -1, -1]}
  ]
},
{
  "Name": "ToFear-Tremere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 33, 0, 26, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [51, 36, 64, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 28, 0, 26, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 33, 0, 26, -1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 28, 0, 26, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 28, 47, 26, -1, 0, 28, -1]},
    {"Taxon": "Friulian", "Segments": [20, 33, 7, 26, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToSleep", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 6, 33, 26, 37, 33, 0]},
    {"Taxon": "French", "Segments": [23, -1, 9, 36, 26, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [23, -1, 6, 28, 26, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 6, 33, 26, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, -1, 6, 36, 26, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, -1, 15, 28, 26, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 15, 33, 26, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 8, 27, 36, 26, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, -1, 15, 33, 26, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, -1, 6, 33, 26, 7, -1, -1]}
  ]
},
{
  "Name": "ToLive", "Data": [
    {"Taxon": "Latin", "Segments": [8, 37, 8, 0, 33, 0]},
    {"Taxon": "French", "Segments": [18, 7, 18, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [19, 7, 19, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [18, 7, 18, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, 7, 18, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [18, 7, 18, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [19, 7, 8, -1, 28, 4]},
    {"Taxon": "Friulian", "Segments": [18, 7, 18, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, 7, -1, 27, -1, -1]}
  ]
},
{
  "Name": "ToDie", "Data": [
    {"Taxon": "French", "Segments": [26, 15, 36, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [26, 6, 28, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 33, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 6, 36, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [26, 15, 36, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [26, 15, 28, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [26, 9, 55, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 15, 33, 37, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 15, 33, 7, -1, -1]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Portuguese", "Segments": [51, 29, -1, 14, -1, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [51, 4, -1, 14, -1, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [46, 31, -1, 14, -1, 37, -1, -1]},
  "Taxon": "Friulian", "Segments": [65, 27, -1, 46, -1, 53, -1, -1]}
}],
{
  "Name": "ToHit", "Data": [
    {"Taxon": "Latin", "Segments": [48, 15, 32, 14, 53, 33, 0]},
    {"Taxon": "French", "Segments": [48, 15, -1, 14, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [48, 15, -1, 34, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 15, 32, 14, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 15, -1, 16, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 15, -1, 16, 27, 28, -1]},
    {"Taxon": "Friulian", "Segments": [48, 15, 32, 14, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 15, 32, 14, 27, -1, -1]}
  ]
},
{
  "Name": "ToCut", "Data": [
    {"Taxon": "Latin", "Segments": [14, -1, 0, 51, 53, 33, 0]},
    {"Taxon": "French", "Segments": [14, 12, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, -1, 0, 1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, -1, 0, 1, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, 0, 1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, 47, 85, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, -1, 4, 85, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, -1, 0, -1, 53, -1, -1]}
  ]
},
{
  "Name": "ToCut-Curtare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 15, 33, 20, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [51, 6, 28, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 6, 36, 20, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 15, 28, 20, 27, 28, -1]}
  ]
},
{
  "Name": "ToCut-Excurtare", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 51, 15, 33, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 51, 15, 36, 20, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 51, 6, 33, 20, 27, 33, 0]},
    {"Taxon": "Friulian", "Segments": [-1, -1, 14, 51, 15, 33, 20, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 51, 15, 33, 20, 27, -1, -1]}
  ]
},
{
  "Name": "ToCut-Taliare", "Data": [
    {"Taxon": "Latin", "Segments": [20, 53, -1, 32, 7, 53, 33, 0]},
    {"Taxon": "French", "Segments": [20, 84, 12, -1, -1, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 27, -1, 34, -1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 27, -1, 35, 35, 53, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 27, -1, 35, -1, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 29, -1, 35, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 4, -1, 35, -1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 31, -1, -1, 12, 37, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 27, -1, -1, 12, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 4, -1, -1, 12, 27, -1, -1]}
  ]
},
{
  "Name": "ToSplit", "Data": [
    {"Taxon": "Latin", "Segments": [23, 37, 8, 7, 23, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [23, 7, 19, 7, 23, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 7, 18, 7, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [10, 7, 18, 7, 10, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 18, 7, 50, 7, 28, -1]},
  ]
}
```



## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Catalan", "Segments": [23, 7, 19, 7, 23, 7, -1, -1]},
  "Taxon": "Friulian", "Segments": [23, 7, 18, 7, 23, 7, -1, -1]},
  "Taxon": "Romanian", "Segments": [23, 7, 18, 7, 23, 0, -1, -1]}
}],
{
  "Name": "ToSplit-Scindere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 51, 7, 13, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [14, -1, 62, -1, 23, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [16, -1, 7, 13, 23, 0, 33, 0]}
  ]
},
{
  "Name": "ToSplit-Findere", "Data": [
    {"Taxon": "Latin", "Segments": [24, 7, 13, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [24, 43, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 0, 13, 23, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 31, 13, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 64, -1, 23, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 64, -1, 23, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [24, 31, 13, 23, -1, 28, 4]},
    {"Taxon": "Walloon", "Segments": [24, 62, -1, 20, -1, -1, -1]}
  ]
},
{
  "Name": "ToSplit-Partire", "Data": [
    {"Taxon": "Latin", "Segments": [48, 27, 33, 20, 37, 33, 0]},
    {"Taxon": "French", "Segments": [48, 27, 36, 20, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [48, 27, 28, 20, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [48, 27, 33, 20, 7, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 27, 36, 46, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 29, 28, 20, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [48, 4, 33, 20, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 73, 55, 20, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [48, 27, 33, 20, 37, -1, -1]}
  ]
},
{
  "Name": "ToSplit-Separare", "Data": [
    {"Taxon": "Latin", "Segments": [14, 25, 48, 27, 33, 53, 33, 0, -1]},
    {"Taxon": "French", "Segments": [14, 4, -1, 18, -1, -1, -1, 36, 0]},
    {"Taxon": "Spanish", "Segments": [14, 0, 48, 27, 28, 27, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 48, 27, 33, 27, 33, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, 48, 27, 28, 27, 36, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 47, 48, 29, 28, 27, 28, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, 48, 4, 28, 27, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 0, 48, 27, 33, 53, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 0, 48, 27, 33, 27, -1, -1, -1]}
  ]
},
{
  "Name": "ToStab", "Data": [
    {"Taxon": "Latin", "Segments": [48, -1, 15, 13, 1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [48, 8, 62, -1, 23, -1, 36, -1]},
    {"Taxon": "Italian", "Segments": [48, -1, 15, 13, 10, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, -1, 90, -1, 3, 7, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [48, -1, 90, -1, 3, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [48, -1, 15, 38, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [48, 15, 13, 10, 0, -1, -1, -1]}
  ]
},
{
  "Name": "ToStab-Iugulare", "Data": [
    {"Taxon": "Latin", "Segments": [12, 15, 1, 15, 32, 53, 33, 0]},
    {"Taxon": "French", "Segments": [3, 22, 1, 22, 32, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [12, 15, 1, 15, 32, 53, 33, 0]}
  ]
},
{
  "Name": "ToScratch", "Data": [
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Portuguese", "Segments": [3, 7, 28, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [19, 7, 28, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [18, 7, 36, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [10, 7, 33, 53, -1, -1]}
}],
{
  "Name": "ToTurnIntransitive-Torquere", "Data": [
    {"Taxon": "Latin", "Segments": [20, 6, 33, 87, 25, 33, 0]},
    {"Taxon": "French", "Segments": [20, 9, 36, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 6, 28, 58, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 9, 33, 46, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 15, 33, 14, 0, 33, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 15, 33, 14, 0, 33, -1]},
    {"Taxon": "Catalan", "Segments": [20, 9, 33, 14, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 39, 33, 46, 0, -1, -1]}
  ],
  "Name": "ToFall", "Data": [
    {"Taxon": "Latin", "Segments": [51, -1, 27, 23, 0, 33, 0]},
    {"Taxon": "French", "Segments": [16, 8, 27, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [51, -1, 27, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, -1, 27, 23, 0, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 29, -1, 7, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 29, -1, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, -1, 27, 8, -1, 33, 4]},
    {"Taxon": "Walloon", "Segments": [46, -1, 57, -1, -1, 55, -1]},
    {"Taxon": "Friulian", "Segments": [46, 12, 27, 23, 0, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 4, 23, 80, -1, -1, -1]}
  ],
  "Name": "ToFall-Tumbare", "Data": [
    {"Taxon": "French", "Segments": [20, 61, -1, 19, 0, -1]},
    {"Taxon": "Spanish", "Segments": [20, 15, 26, 19, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 61, -1, 19, 27, 36]},
    {"Taxon": "Portuguese", "Segments": [20, 61, -1, 19, 27, 28]},
    {"Taxon": "Catalan", "Segments": [20, 15, 26, 19, 27, -1]},
    {"Taxon": "Walloon", "Segments": [20, 15, 26, -1, 0, -1]}
  ],
  "Name": "ToGive", "Data": [
    {"Taxon": "Latin", "Segments": [23, 27, 33, 0]},
    {"Taxon": "Spanish", "Segments": [23, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 27, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 27, 33, -1]},
    {"Taxon": "Friulian", "Segments": [23, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [23, 27, -1, -1]}
  ],
  "Name": "ToGive-Donare", "Data": [
    {"Taxon": "Latin", "Segments": [23, 6, 13, 53, 33, 0]},
    {"Taxon": "French", "Segments": [23, 9, 13, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [23, 6, 13, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 6, 13, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 6, -1, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 15, -1, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 15, 13, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 7, 13, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 6, 13, 53, -1, -1]}
  ],
  ],
}
```



## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Name": "ToHold", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 13, -1, 25, 33, 0]},
    {"Taxon": "French", "Segments": [20, 4, 13, -1, 7, 36, -1]},
    {"Taxon": "Spanish", "Segments": [20, 0, 13, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [20, 0, 13, -1, 0, 28, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 0, -1, -1, -1, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 0, -1, -1, -1, 28, -1]},
    {"Taxon": "Catalan", "Segments": [20, 4, 13, -1, 7, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 7, 13, -1, 7, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 7, 13, 12, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [52, 7, 13, -1, 0, -1, -1]}
  ],
  "Name": "ToHold-Segurar", "Data": [
    {"Taxon": "Spanish", "Segments": [14, 0, 1, 15, 28, 27, 28]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 47, 1, 15, 28, 27, 36]},
    {"Taxon": "Portuguese", "Segments": [14, 47, 85, 15, 28, 27, 28]}
  ],
  "Name": "ToSqueeze", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 48, 33, 7, 26, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, -1, 48, 36, 62, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [0, 51, 14, 48, 28, 0, 26, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 48, 33, 31, 26, -1, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1, 16, 48, 33, 4, 26, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1, 16, 48, 33, 4, 26, -1, 0, 33, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 48, 28, 0, 26, -1, 4, -1, -1]},
    {"Taxon": "Friulian", "Segments": [0, -1, 14, 48, 33, 7, 26, -1, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, 14, 51, -1, 33, 0, 26, 0, -1, -1, -1]}
  ],
  "Name": "ToSqueeze-Serrere", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, 33, 33, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, 33, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 36, 27, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 4, -1, 55, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [14, 4, -1, 33, 27, -1, -1]}
  ],
  "Name": "ToSqueeze-Serare", "Data": [
    {"Taxon": "Latin", "Segments": [14, 0, -1, 33, 27, 33, 0]},
    {"Taxon": "French", "Segments": [14, 0, -1, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [58, 0, -1, 33, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 33, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 47, -1, 36, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 47, -1, 36, 27, 28, -1]},
    {"Taxon": "Walloon", "Segments": [14, 31, -1, 55, 0, -1, -1]}
  ],
  "Name": "ToSqueeze-Appectorare", "Data": [
    {"Taxon": "Latin", "Segments": [27, 48, 48, 0, 51, 20, 6, 33, 53, 33, 0]},
    {"Taxon": "Spanish", "Segments": [27, -1, 48, -1, -1, 28, 0, 20, 27, 28, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [29, -1, 48, 47, -1, 28, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [29, -1, 48, 47, -1, 28, -1, 20, 27, 28, -1]}
  ],
  "Name": "ToSqueeze-Stringere", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 20, 33, 7, 13, 1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, 20, 36, 62, -1, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 20, 28, 0, 38, -1, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 20, 33, 7, 13, 10, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [4, 16, 20, 33, 44, -1, 3, 7, 33, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Portuguese", "Segments": [4, 16, 20, 33, 44, 3, 7, 33, -1, -1]},
  "Taxon": "Catalan", "Segments": [4, 14, 20, 28, 31, 38, -1, 4, -1, -1]},
  "Taxon": "Walloon", "Segments": [-1, 14, 20, 33, 7, 13, 1, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [-1, 14, 20, 33, 31, 13, 1, 37, -1, -1]},
  "Taxon": "Romanian", "Segments": [-1, 14, 20, 33, 47, 13, 10, 0, -1, -1]}
}],
{
  "Name": "ToRub", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 7, 51, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 36, 86, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, 0, 1, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, 0, 1, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [24, 28, 4, 1, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 33, 17, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 33, 0, -1, 27, -1, -1]},
    {"Taxon": "Romanian", "Segments": [24, 33, 0, 51, 27, -1, -1]}
  ]
},
{
  "Name": "ToRub-Exfricare", "Data": [
    {"Taxon": "PortugueseBrazil", "Segments": [47, 16, 24, 28, 47, 1, 27, 28]},
    {"Taxon": "Portuguese", "Segments": [47, 16, 24, 28, 47, 85, 27, 28]}
  ]
},
{
  "Name": "ToRub-Frictare", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, 7, 51, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 36, 6, 20, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, 6, 20, 27, 28, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, 0, 20, 20, 27, 33, 0]},
    {"Taxon": "Walloon", "Segments": [24, 36, 6, 20, 0, -1, -1, -1]}
  ]
},
{
  "Name": "ToRub-Frictiare", "Data": [
    {"Taxon": "Spanish", "Segments": [24, 33, 7, 14, 27, 28]},
    {"Taxon": "Catalan", "Segments": [24, 28, 4, 14, 27, -1]}
  ]
},
{
  "Name": "ToWash", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 8, 53, 33, 0]},
    {"Taxon": "French", "Segments": [32, 27, 18, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 67, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 18, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 29, 18, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 29, 18, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [35, 4, 19, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [32, 27, 18, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 27, 18, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, -1, -1, -1, -1]}
  ]
},
{
  "Name": "ToWipe", "Data": [
    {"Taxon": "Latin", "Segments": [20, 0, 33, 1, 0, 33, 0]},
    {"Taxon": "Italian", "Segments": [20, 31, 33, 10, 0, 33, 0]}
  ]
},
{
  "Name": "ToWipe-Extergere", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 20, 0, 33, 1, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [0, -1, 14, 20, 27, 28, 14, 7, 28, -1]},
    {"Taxon": "Catalan", "Segments": [4, -1, 14, 20, 4, 33, 3, 7, -1, -1]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 16, 20, 0, 33, 10, 0, -1, -1]}
  ]
},
{
  "Name": "ToWipe-Exsucare", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, -1, 21, 51, -1, 53, 33, 0]},
    {"Taxon": "French", "Segments": [0, -1, 14, 69, 7, -1, 12, 0, -1, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Italian", "Segments": [51, 6, 13, -1, -1, 20, 27, 33, 0]},
  "Taxon": "PortugueseBrazil", "Segments": [51, 61, -1, -1, -1, 20, 27, 28, -1]},
  "Taxon": "Portuguese", "Segments": [51, 61, -1, -1, -1, 20, 27, 28, -1]},
  "Taxon": "Catalan", "Segments": [51, 15, 26, -1, -1, 20, 27, -1, -1]},
  "Taxon": "Walloon", "Segments": [51, 61, -1, -1, -1, 20, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [51, 6, 13, -1, -1, 20, 53, -1, -1]}
}],
{
  "Name": "ToCount-Enumerare", "Data": [
    {"Taxon": "Latin", "Segments": [25, 13, 15, 26, 0, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [0, 13, 15, 26, 0, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [0, 13, 15, 26, 0, 33, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [0, 13, 15, 26, 0, 28, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [0, 13, 15, 26, 0, 28, 27, -1, -1]}
  ]
},
{
  "Name": "ToCount-Numerare", "Data": [
    {"Taxon": "Latin", "Segments": [13, 15, 26, 0, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [13, 42, -1, 19, 36, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [13, 6, 18, 0, 33, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [13, 15, 26, 0, 28, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 15, 26, 0, 33, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 15, 26, 27, 33, 27, -1, -1]}
  ]
},
{
  "Name": "ToSay", "Data": [
    {"Taxon": "Latin", "Segments": [23, 37, 51, 0, 33, 0]},
    {"Taxon": "French", "Segments": [23, 7, -1, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [23, 0, 58, 7, 28, -1]},
    {"Taxon": "Italian", "Segments": [23, 7, -1, -1, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, 7, 49, 0, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [23, 7, 49, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [23, 7, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [23, 37, -1, -1, 36, -1]},
    {"Taxon": "Friulian", "Segments": [23, 37, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [49, 7, 46, 0, -1, -1]}
  ]
},
{
  "Name": "ToSay-Exponere", "Data": [
    {"Taxon": "Latin", "Segments": [0, 51, 14, 48, 2, 13, 0, 33, 0]},
    {"Taxon": "Italian", "Segments": [-1, -1, 14, 48, 6, 33, -1, 33, 0]},
    {"Taxon": "Romanian", "Segments": [-1, -1, 14, 48, 15, 13, 0, -1, -1]}
  ]
},
{
  "Name": "ToSing-AncestralClass", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 13, 20, 53, 33, 0]},
    {"Taxon": "French", "Segments": [16, 43, -1, 20, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 13, 20, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 13, 20, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 45, -1, 20, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 45, -1, 20, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, 13, 20, 27, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 43, -1, 20, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 13, 20, 53, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 47, 13, 20, 27, -1, -1]}
  ]
},
{
  "Name": "ToPlay-Ludere", "Data": [
    {"Taxon": "Latin", "Segments": [32, 21, 23, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [32, 15, 23, 7, 28, -1]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Italian", "Segments": [-1, 1, -1, 6, 13, 24, 12, 27, 33, 0]},
  "Taxon": "Walloon", "Segments": [-1, 1, -1, 61, -1, 24, 32, 0, -1, -1]},
  "Taxon": "Friulian", "Segments": [49, 1, 32, 6, 75, 24, -1, 53, -1, -1]}
}],
{
  "Name": "ToSwell-Intumescere", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 20, 15, 26, 25, 14, 51, 0, 33, 0]},
    {"Taxon": "Spanish", "Segments": [0, 13, 20, 15, 26, 0, 58, 0, 28, -1, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 20, 15, 26, 0, 14, -1, 0, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [44, -1, 20, 15, 26, 0, 14, -1, 0, 28, -1]}
  ]
},
{
  "Name": "ToSwell-Crescere", "Data": [
    {"Taxon": "Latin", "Segments": [51, 33, -1, 25, 14, 51, 25, 33, 0]},
    {"Taxon": "French", "Segments": [51, 36, 8, 27, -1, 20, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [51, 28, -1, 0, 58, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 33, -1, 0, 16, 16, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 28, -1, 0, 14, -1, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 28, -1, 47, 16, 14, 0, 28, -1]},
    {"Taxon": "Catalan", "Segments": [51, 28, -1, 0, -1, 16, 4, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 28, -1, 0, 16, 20, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Brojan", "Data": [
    {"Taxon": "French", "Segments": [19, 36, 22, 32, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [19, 33, 15, 46, 27, 33, 0]},
    {"Taxon": "Walloon", "Segments": [19, 36, 21, 32, 0, -1, -1]},
    {"Taxon": "Friulian", "Segments": [19, 33, 15, 49, 53, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Cremare", "Data": [
    {"Taxon": "Latin", "Segments": [51, 33, 0, 26, 53, 33, 0]},
    {"Taxon": "French", "Segments": [51, 36, 27, 26, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, -1, 0, 26, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [51, 33, 0, 26, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, -1, 60, 26, 27, 28, 0]},
    {"Taxon": "Portuguese", "Segments": [51, -1, 59, 26, 27, 36, 0]},
    {"Taxon": "Catalan", "Segments": [51, 33, 4, 26, 27, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flammare", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 27, 26, 26, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 32, 27, -1, 26, 0, -1, -1]},
    {"Taxon": "Italian", "Segments": [24, 12, 27, 26, 26, 27, 33, 0]},
    {"Taxon": "Catalan", "Segments": [24, 68, 27, -1, 26, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 32, 27, -1, 26, 53, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Ardere", "Data": [
    {"Taxon": "Latin", "Segments": [27, 33, 23, 25, 33, 0]},
    {"Taxon": "French", "Segments": [27, 36, 23, -1, 36, -1]},
    {"Taxon": "Spanish", "Segments": [27, 28, 23, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [27, 33, 23, 0, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, 36, 23, 0, 36, -1]},
    {"Taxon": "Portuguese", "Segments": [29, 28, 23, 0, 28, -1]},
    {"Taxon": "Romanian", "Segments": [27, 28, 23, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-Flagrare", "Data": [
    {"Taxon": "Latin", "Segments": [24, 32, 27, 1, 33, 53, 33, 0]},
    {"Taxon": "French", "Segments": [24, 32, 27, 1, 36, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 32, 27, 1, 28, 27, 28, -1]},
    {"Taxon": "Italian", "Segments": [24, 32, 27, 1, 33, 27, 33, 0]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "PortugueseBrazil", "Segments": [24, 32, 27, 1, 36, 27, 36, -1]},
  "Taxon": "Portuguese", "Segments": [24, 32, 27, 1, 28, 27, 28, -1]}
}],
{
  "Name": "ToBurn-Incendere", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13, 51, 0, 13, 23, -1, 0, 33, 0]},
    {"Taxon": "French", "Segments": [62, -1, 14, 43, -1, 23, 12, 0, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 13, 58, 0, 13, 23, -1, 0, 28, -1]},
    {"Taxon": "Italian", "Segments": [7, 13, 46, 31, 13, 23, 12, 27, 33, 0]},
    {"Taxon": "PortugueseBrazil", "Segments": [44, -1, 14, 0, 13, 10, 11, 27, 28, -1]},
    {"Taxon": "Portuguese", "Segments": [44, -1, 14, 64, -1, 23, 12, 27, 28, -1]},
    {"Taxon": "Catalan", "Segments": [4, 13, 14, 0, 13, 23, -1, -1, 28, 4]},
    {"Taxon": "Romanian", "Segments": [47, 13, 46, 7, 13, 23, 3, 0, -1, -1]}
  ]
},
{
  "Name": "ToBurn-AncestralClass8", "Data": [
    {"Taxon": "Latin", "Segments": [15, 14, 20, 15, 32, 53, 33, 0]},
    {"Taxon": "Italian", "Segments": [15, 14, 20, 6, 32, 27, 33, 0]},
    {"Taxon": "Romanian", "Segments": [15, 14, 20, 15, 33, 27, -1, -1]}
  ]
},
{
  "Name": "All", "Data": [
    {"Taxon": "Latin", "Segments": [6, 26, 13, 25, 14]},
    {"Taxon": "Italian", "Segments": [6, 38, 38, 7, -1]}
  ]
},
{
  "Name": "All-Totus", "Data": [
    {"Taxon": "Latin", "Segments": [20, 2, -1, 20, 15, 14]},
    {"Taxon": "French", "Segments": [20, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [20, 6, -1, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [20, 15, 20, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 6, -1, 23, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 6, -1, 50, 15, -1]},
    {"Taxon": "Catalan", "Segments": [20, 6, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [20, 9, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [23, 15, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [20, 6, -1, 20, -1, -1]}
  ]
},
{
  "Name": "Many", "Data": [
    {"Taxon": "Latin", "Segments": [26, 15, 32, 20, 15, 14]},
    {"Taxon": "French", "Segments": [26, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [26, 15, -1, 46, 6, -1]},
    {"Taxon": "Italian", "Segments": [26, 6, 32, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [26, 90, 92, -1, 20, 15]},
    {"Taxon": "Portuguese", "Segments": [26, 90, 92, -1, 20, 15]},
    {"Taxon": "Catalan", "Segments": [26, 6, 32, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [26, 6, 32, 65, -1, -1]},
    {"Taxon": "Romanian", "Segments": [26, 15, 32, 20, -1, -1]}
  ]
},
{
  "Name": "Many-Tantus", "Data": [
    {"Taxon": "Latin", "Segments": [20, 27, 13, 20, 15, 14]},
    {"Taxon": "Spanish", "Segments": [20, 27, 13, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [20, 27, 13, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [20, 45, -1, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [20, 45, -1, 20, 15, -1]},
    {"Taxon": "Catalan", "Segments": [20, 27, 13, 20, -1, -1]},
    {"Taxon": "Friulian", "Segments": [20, 27, 13, 65, -1, -1]}
  ]
},
{
  "Name": "Some", "Data": [
    {"Taxon": "French", "Segments": [6, -1, 51, 93, -1, -1]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "French", "Segments": [32, 42, -1, -1, -1, -1, -1]},
  "Taxon": "Spanish", "Segments": [32, 6, -1, 13, 1, 6, -1]},
  "Taxon": "Italian", "Segments": [32, 15, -1, 13, 1, 6, -1]},
  "Taxon": "PortugueseBrazil", "Segments": [32, 61, -1, 1, 15, -1, -1]},
  "Taxon": "Portuguese", "Segments": [32, 61, -1, 1, 15, -1, -1]},
  "Taxon": "Catalan", "Segments": [35, 6, -1, 75, -1, -1, -1]},
  "Taxon": "Walloon", "Segments": [32, 61, -1, -1, -1, -1, -1]},
  "Taxon": "Friulian", "Segments": [32, 15, 13, 51, -1, -1, -1]},
  "Taxon": "Romanian", "Segments": [32, 15, 13, 1, -1, -1, -1]}
}],
{
  "Name": "Long-Largum", "Data": [
    {"Taxon": "Latin", "Segments": [32, 27, 33, 1, 15, 14]},
    {"Taxon": "French", "Segments": [32, 27, 36, 3, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 28, 85, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 33, 1, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 36, 1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 28, 1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [35, 27, 28, 51, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, 27, 33, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 33, 1, -1, -1]}
  ]
},
{
  "Name": "Wide", "Data": [
    {"Taxon": "Latin", "Segments": [32, 53, 20, 15, 14]},
    {"Taxon": "French", "Segments": [32, 0, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [32, 27, 20, 6, -1]},
    {"Taxon": "Italian", "Segments": [32, 27, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [32, 27, 20, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [32, 27, 20, 15, -1]},
    {"Taxon": "Romanian", "Segments": [32, 27, 20, -1, -1]}
  ]
},
{
  "Name": "Wide-Amplum", "Data": [
    {"Taxon": "Latin", "Segments": [27, 26, 48, 32, 15, 14]},
    {"Taxon": "French", "Segments": [43, -1, 48, 32, -1, -1]},
    {"Taxon": "Spanish", "Segments": [27, 13, 46, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [27, 26, 48, 12, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [45, -1, 16, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [45, -1, 16, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [27, 26, 48, 32, 4, -1]}
  ]
},
{
  "Name": "Thick", "Data": [
    {"Taxon": "Latin", "Segments": [51, 33, 27, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [1, 36, 84, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [1, 28, 27, -1, 14, 6, -1]},
    {"Taxon": "Italian", "Segments": [1, 33, 27, 14, 14, 6, -1]},
    {"Taxon": "Portuguese", "Segments": [1, 28, 27, -1, 16, 15, -1]},
    {"Taxon": "Catalan", "Segments": [1, 28, 27, -1, 14, -1, -1]},
    {"Taxon": "Friulian", "Segments": [1, 33, 27, 14, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [1, 33, 27, 14, -1, -1, -1]}
  ]
},
{
  "Name": "Thick-Spissum", "Data": [
    {"Taxon": "Latin", "Segments": [-1, 14, 48, 7, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [0, -1, 48, 0, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [0, 14, 48, 0, 14, 6, -1, -1]},
    {"Taxon": "Italian", "Segments": [-1, 14, 48, 0, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, 14, 48, 31, -1, 14, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [7, 16, 48, 0, -1, 14, 15, -1]},
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "PortugueseBrazil", "Segments": [23, 0, 8, -1, 1, 27, 23, 15, -1]},
  "Taxon": "Portuguese", "Segments": [23, 31, 68, -1, 85, 27, 50, 15, -1]},
  "Taxon": "Catalan", "Segments": [23, 4, 32, 7, 51, 27, 20, -1, -1]}
}],
{
  "Name": "Thin-Subtilis", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 19, 20, 37, 32, 0, 26]},
    {"Taxon": "Spanish", "Segments": [14, 15, -1, 20, 7, 32, -1, -1]},
    {"Taxon": "Italian", "Segments": [14, 6, 20, 20, 7, 32, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 15, -1, 46, 7, 8, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 15, -1, 46, 7, 8, -1, -1]},
    {"Taxon": "Catalan", "Segments": [14, 15, 48, 20, 7, 32, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 21, -1, 20, 7, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 15, -1, 20, 37, 32, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 15, 19, 52, 7, 33, 0, -1]}
  ]
},
{
  "Name": "Warm", "Data": [
    {"Taxon": "Latin", "Segments": [51, 27, 32, 7, 23, 15, 14]},
    {"Taxon": "French", "Segments": [16, 6, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [51, 27, 32, -1, 23, 6, -1]},
    {"Taxon": "Italian", "Segments": [51, 27, 32, -1, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 27, 8, -1, -1, 23, 15]},
    {"Taxon": "Portuguese", "Segments": [51, 27, 32, -1, 23, 15, -1]},
    {"Taxon": "Catalan", "Segments": [51, 27, 68, -1, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [46, 61, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [65, 27, 32, -1, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [51, 27, 32, -1, 23, -1, -1]}
  ]
},
{
  "Name": "Cold", "Data": [
    {"Taxon": "Latin", "Segments": [24, 33, -1, 37, 1, 7, 23, 15, 14]},
    {"Taxon": "French", "Segments": [24, 36, 8, 27, -1, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [24, 28, -1, 7, -1, -1, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [24, 33, -1, 0, 23, -1, 23, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [24, 28, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [24, 28, -1, 7, -1, -1, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [24, 28, -1, 31, -1, -1, 20, -1, -1]},
    {"Taxon": "Walloon", "Segments": [24, 55, 8, 31, -1, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [24, 33, -1, 25, -1, -1, 20, -1, -1]}
  ]
},
{
  "Name": "Cold-Recens", "Data": [
    {"Taxon": "Latin", "Segments": [33, 0, 51, -1, 0, 13, 20, 0, 26]},
    {"Taxon": "Spanish", "Segments": [33, 0, 58, 12, 0, 13, 20, 0, -1]},
    {"Taxon": "Italian", "Segments": [33, 0, 46, -1, 31, 13, 20, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 0, 14, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 0, 14, -1, 64, -1, 46, 7, -1]},
    {"Taxon": "Friulian", "Segments": [33, 0, 52, -1, 7, 13, 20, -1, -1]},
    {"Taxon": "Romanian", "Segments": [33, 0, 46, -1, 0, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Full", "Data": [
    {"Taxon": "Latin", "Segments": [48, 32, 25, 13, 15, 14]},
    {"Taxon": "French", "Segments": [48, 32, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [-1, 35, 0, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 12, 57, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [16, -1, 60, -1, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [16, -1, 60, -1, 15, -1]},
    {"Taxon": "Catalan", "Segments": [48, 68, 31, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [48, 32, 64, -1, -1, -1]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Latin", "Segments": [33, 0, 20, 21, 14, 15, 14]},
  "Taxon": "Italian", "Segments": [33, 0, 20, 15, 49, 6, -1]}
}],
{
  "Name": "Smooth", "Data": [
    {"Taxon": "Latin", "Segments": [14, 15, 53, 8, 0, 26]},
    {"Taxon": "Italian", "Segments": [14, 6, 27, 18, 0, -1]},
    {"Taxon": "Catalan", "Segments": [14, 15, 27, 8, -1, -1]}
  ]
},
{
  "Name": "Smooth-Nitidus", "Data": [
    {"Taxon": "Latin", "Segments": [13, 7, 20, 7, 23, 15, 14]},
    {"Taxon": "French", "Segments": [13, 31, 20, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [13, 7, 50, 7, -1, 6, -1]},
    {"Taxon": "Italian", "Segments": [13, 0, 20, -1, 20, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 31, 10, 15, -1, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 31, 10, 15, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [13, 31, 20, -1, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [13, 31, 20, -1, -1, -1, -1]},
    {"Taxon": "Romanian", "Segments": [13, 0, 20, 0, 23, -1, -1]}
  ]
},
{
  "Name": "Wet", "Data": [
    {"Taxon": "Latin", "Segments": [21, 26, 7, 23, 15, 14]},
    {"Taxon": "Italian", "Segments": [15, 26, 7, 23, 6, -1]},
    {"Taxon": "Friulian", "Segments": [15, 26, 7, 23, -1, -1]},
    {"Taxon": "Romanian", "Segments": [15, 26, 0, 23, -1, -1]}
  ]
},
{
  "Name": "Wet-Udus", "Data": [
    {"Taxon": "Latin", "Segments": [21, 23, 15, 14]},
    {"Taxon": "Romanian", "Segments": [15, 23, -1, -1]}
  ]
},
{
  "Name": "Dry", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 51, 51, 15, 14]},
    {"Taxon": "French", "Segments": [14, 31, -1, 51, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 0, -1, 51, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 0, 51, 51, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 0, -1, 51, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 0, -1, 51, 15, -1]},
    {"Taxon": "Catalan", "Segments": [14, 31, 51, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [14, 31, 46, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [14, 31, -1, 51, -1, -1]},
    {"Taxon": "Romanian", "Segments": [14, 0, 51, -1, -1, -1]}
  ]
},
{
  "Name": "Correct", "Data": [
    {"Taxon": "Latin", "Segments": [51, 6, 33, 33, 25, 51, 20, 15, 14]},
    {"Taxon": "Italian", "Segments": [51, 6, 33, 33, 0, 20, 20, 6, -1]}
  ]
},
{
  "Name": "Near", "Data": [
    {"Taxon": "Latin", "Segments": [48, 33, 6, 51, 14, 7, -1, -1, 26, 15, 14]},
    {"Taxon": "Spanish", "Segments": [48, 28, 6, 34, -1, 7, -1, -1, 26, 6, -1]},
    {"Taxon": "Italian", "Segments": [48, 33, 9, 14, 14, 7, -1, -1, 26, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [48, 28, 6, 14, 7, -1, -1, 26, 15, -1, -1]},
    {"Taxon": "Portuguese", "Segments": [48, 28, 6, 14, 7, -1, -1, 26, 15, -1, -1]},
    {"Taxon": "Catalan", "Segments": [48, 28, 6, -1, -1, -1, 7, 49, 26, 0, -1]},
    {"Taxon": "Friulian", "Segments": [48, 33, 6, -1, 14, 7, -1, -1, 26, -1, -1]}
  ]
},
{
  "Name": "Near-AdPrope", "Data": [
    {"Taxon": "Latin", "Segments": [27, 23, 48, 33, 6, 48, 33, 0]}
  ]
}
```

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Catalan", "Segments": [4, -1, 48, 28, 9, 48, -1, -1]},
  "Taxon": "Romanian", "Segments": [27, -1, 48, 33, 39, 48, -1, 0]}
}],
{
  "Name": "Near-Pressus", "Data": [
    {"Taxon": "Latin", "Segments": [48, 33, 0, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [48, 36, 0, -1, -1, -1, -1]},
    {"Taxon": "Italian", "Segments": [48, 33, 31, 14, 14, 6, -1]},
    {"Taxon": "Walloon", "Segments": [48, 33, 31, -1, -1, -1, -1]}
  ]
},
{
  "Name": "Near-Vicinus", "Data": [
    {"Taxon": "Latin", "Segments": [8, -1, 37, 51, 37, 13, 15, 14]},
    {"Taxon": "French", "Segments": [18, 8, 27, 49, 62, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [19, -1, 0, 58, 7, 13, 6, -1]},
    {"Taxon": "Italian", "Segments": [18, -1, 7, 46, 7, 13, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 7, 49, 7, 38, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [18, -1, 7, 49, 7, 38, 15, -1]},
    {"Taxon": "Catalan", "Segments": [19, -1, 4, -1, 7, -1, -1, -1]},
    {"Taxon": "Walloon", "Segments": [18, -1, 7, 3, 64, -1, -1, -1]},
    {"Taxon": "Friulian", "Segments": [18, -1, 7, 46, 7, 13, -1, -1]},
    {"Taxon": "Romanian", "Segments": [18, -1, 0, 46, 7, 13, -1, -1]}
  ]
},
{
  "Name": "Near-Circa", "Data": [
    {"Taxon": "Latin", "Segments": [51, 7, 33, 51, 27]},
    {"Taxon": "French", "Segments": [58, 0, 28, 51, 27]}
  ]
},
{
  "Name": "Far", "Data": [
    {"Taxon": "French", "Segments": [32, 8, 62, -1, 20, 62, -1, -1]},
    {"Taxon": "Italian", "Segments": [32, -1, 6, 13, 20, 27, 13, 6]},
    {"Taxon": "Catalan", "Segments": [35, -1, 15, 13, 20, 27, -1, -1]},
    {"Taxon": "Friulian", "Segments": [32, -1, 6, 13, 20, 27, 13, -1]}
  ]
},
{
  "Name": "Right-Dextrem", "Data": [
    {"Taxon": "Latin", "Segments": [23, -1, 0, 51, 14, 20, 33, 15, 26]},
    {"Taxon": "Spanish", "Segments": [23, 12, 0, -1, 14, 20, 28, 6, -1]},
    {"Taxon": "Italian", "Segments": [23, -1, 31, -1, 14, 20, 33, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [23, -1, 31, -1, 14, 20, 28, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [23, -1, 31, -1, 16, 20, 28, 15, -1]},
    {"Taxon": "Catalan", "Segments": [23, -1, 0, -1, 14, 20, 28, 4, -1]},
    {"Taxon": "Friulian", "Segments": [23, 12, 0, -1, 14, 20, 33, 7, -1]}
  ]
},
{
  "Name": "Left", "Data": [
    {"Taxon": "Latin", "Segments": [14, 7, 13, -1, 7, 14, 20, 33, 15, 26]},
    {"Taxon": "French", "Segments": [14, 4, 13, -1, 31, 14, 20, 36, -1, -1]},
    {"Taxon": "Spanish", "Segments": [14, 7, 13, 12, 0, 14, 20, 28, 6, -1]},
    {"Taxon": "Italian", "Segments": [14, 7, 13, -1, 0, 14, 20, 33, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, -1, -1, -1, 31, 16, 20, 28, 15, -1]},
    {"Taxon": "Portuguese", "Segments": [14, -1, -1, -1, 31, 16, 20, 28, 15, -1]},
    {"Taxon": "Friulian", "Segments": [14, 7, 38, -1, 0, 14, 20, 33, 7, -1]}
  ]
},
{
  "Name": "Red", "Data": [
    {"Taxon": "Latin", "Segments": [33, 15, 14, 14, 15, 14]},
    {"Taxon": "French", "Segments": [36, 15, -1, -1, -1, -1]},
    {"Taxon": "Spanish", "Segments": [33, 6, -1, 34, 6, -1]},
    {"Taxon": "Italian", "Segments": [33, 6, 14, 14, 6, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [36, 6, -1, 16, 94, -1]},
    {"Taxon": "Portuguese", "Segments": [36, 6, -1, 16, 15, -1]},
  ]
}
```



## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

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

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Name": "Not-Nec", "Data": [
    {"Taxon": "Latin", "Segments": [13, 0, 51]},
    {"Taxon": "French", "Segments": [13, 7, -1]},
    {"Taxon": "Spanish", "Segments": [13, 7, -1]},
    {"Taxon": "Italian", "Segments": [13, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [13, 41, -1]},
    {"Taxon": "Portuguese", "Segments": [13, 54, -1]},
    {"Taxon": "Catalan", "Segments": [13, 7, -1]},
    {"Taxon": "Walloon", "Segments": [13, 64, -1]}
  ],
  "Name": "At", "Data": [
    {"Taxon": "Latin", "Segments": [27, 23]},
    {"Taxon": "French", "Segments": [27, -1]},
    {"Taxon": "Spanish", "Segments": [27, -1]},
    {"Taxon": "Italian", "Segments": [27, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [27, -1]},
    {"Taxon": "Portuguese", "Segments": [29, -1]},
    {"Taxon": "Catalan", "Segments": [27, -1]},
    {"Taxon": "Walloon", "Segments": [27, -1]},
    {"Taxon": "Friulian", "Segments": [27, -1]},
    {"Taxon": "Romanian", "Segments": [27, -1]}
  ],
  "Name": "In-In", "Data": [
    {"Taxon": "Latin", "Segments": [7, 13]},
    {"Taxon": "Spanish", "Segments": [0, 13]},
    {"Taxon": "Italian", "Segments": [7, 13]},
    {"Taxon": "PortugueseBrazil", "Segments": [41, -1]},
    {"Taxon": "Portuguese", "Segments": [54, -1]},
    {"Taxon": "Catalan", "Segments": [4, 13]},
    {"Taxon": "Romanian", "Segments": [47, 13]}
  ],
  "Name": "In-Deintus", "Data": [
    {"Taxon": "Latin", "Segments": [23, 0, 7, 13, 20, 15, 14]},
    {"Taxon": "French", "Segments": [23, 43, -1, -1, -1, -1, -1]},
    {"Taxon": "Catalan", "Segments": [23, 7, -1, 13, -1, -1, 14]}
  ],
  "Name": "With-Cum", "Data": [
    {"Taxon": "Latin", "Segments": [51, 15, 26]},
    {"Taxon": "Spanish", "Segments": [51, 6, 13]},
    {"Taxon": "Italian", "Segments": [51, 6, 13]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 61, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 61, -1]},
    {"Taxon": "Romanian", "Segments": [51, 15, -1]}
  ],
  "Name": "With-Abhoc", "Data": [
    {"Taxon": "Latin", "Segments": [27, 19, 40, 6, 65]},
    {"Taxon": "French", "Segments": [27, 18, -1, 0, 51]},
    {"Taxon": "Walloon", "Segments": [27, 18, -1, 15, -1]}
  ],
  "Name": "And-Et", "Data": [
    {"Taxon": "Latin", "Segments": [0, 20]},
    {"Taxon": "French", "Segments": [0, -1]},
    {"Taxon": "Spanish", "Segments": [7, -1]},
    {"Taxon": "Italian", "Segments": [0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [7, -1]},
    {"Taxon": "Portuguese", "Segments": [7, -1]}
```

## Appendix 1 - Tongue Twister Configuration

---

```
{
  "Taxon": "Catalan", "Segments": [7, -1]},
  "Taxon": "Walloon", "Segments": [31, -1]},
  "Taxon": "Friulian", "Segments": [0, -1]},
  "Taxon": "Romanian", "Segments": [0, -1]}
}],
{
  "Name": "And-Si", "Data": [
    {"Taxon": "Latin", "Segments": [14, 37, 51]},
    {"Taxon": "French", "Segments": [14, 7, -1]},
    {"Taxon": "Spanish", "Segments": [14, 7, -1]},
    {"Taxon": "Italian", "Segments": [14, 7, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [14, 44, -1]},
    {"Taxon": "Portuguese", "Segments": [14, 44, -1]},
    {"Taxon": "Catalan", "Segments": [14, 7, -1]},
    {"Taxon": "Walloon", "Segments": [14, 7, -1]},
    {"Taxon": "Friulian", "Segments": [14, 7, -1]},
    {"Taxon": "Romanian", "Segments": [16, 7, -1]}
  ]
},
{
  "Name": "Because-Quod", "Data": [
    {"Taxon": "Latin", "Segments": [87, 6, 23]},
    {"Taxon": "French", "Segments": [51, 4, -1]},
    {"Taxon": "Spanish", "Segments": [51, 0, -1]},
    {"Taxon": "Italian", "Segments": [51, 0, -1]},
    {"Taxon": "PortugueseBrazil", "Segments": [51, 7, -1]},
    {"Taxon": "Portuguese", "Segments": [51, 47, -1]},
    {"Taxon": "Catalan", "Segments": [51, 4, -1]},
    {"Taxon": "Walloon", "Segments": [51, 37, -1]},
    {"Taxon": "Friulian", "Segments": [51, 0, -1]},
    {"Taxon": "Romanian", "Segments": [51, 4, -1]}
  ]
}
]
```



## 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 = 95

#####
# 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+"Gamma_MCC.tree")
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=2573;
  format datatype=STANDARD interleave=yes respectcase gap=- missing=? symbols="ABCDEFGHIJKLMNOPQRSTUVWXYZ
TUVWXYZabcdefghijklmnopqrstuvwxyz0123456789!$%&' +,./<_=@*";

  matrix
  [ I ]
  Latin          -012          - e g o:
  French         34--          3 ə - -
  Spanish        5--6          j - - o
  Italian        7--6          i - - o
  PortugueseBrazil -0-8        - e - w
  Portuguese     -0-8        - e - w
  Catalan        3--9          3 - - ɔ
  Walloon        1011--        ɔ 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 13912-14      n ɔ j - s
  Portuguese     139-16-        n ɔ - ʃ -
  Catalan
  Walloon        136---        n o - - -
  Friulian       132---        n o: - - -
  Romanian       1317---        n oj - - -

  [ YouPlural ]
  Latin          82-14          w o: - s
  French         1815--        v u - -
  Spanish        196-14        b o - s
  Italian        1827-        v o: i -
  PortugueseBrazil 1891214      v ɔ j s
  Portuguese     186-16        v o - ʃ
  Catalan        1915-14        b u - s
  Walloon        186-14        v o - s
  Friulian       182--        v o: - -
  Romanian       1817--        v oj - -

  [ YouSingular ]
  Latin          2021          t u:
  French         2022          t y
  Spanish        2015          t u
  Italian        2015          t u
  PortugueseBrazil 2015        t u
  Portuguese     2015          t u
```

## Appendix 3 - Character File

|                   |                |                    |
|-------------------|----------------|--------------------|
| Catalan           | 2015           | t u                |
| Walloon           | 2022           | t y                |
| Friulian          | 2015           | t u                |
| Romanian          | 2015           | t u                |
| [ YouSingular ]   |                |                    |
| Latin             |                |                    |
| French            |                |                    |
| Spanish           | -151420023     | - u s t e d        |
| Italian           |                |                    |
| PortugueseBrazil  | 18614-0-       | v o s - e -        |
| Portuguese        | 18914-0-       | v o s - e -        |
| Catalan           | 18614200-      | v o s t e -        |
| Walloon           |                |                    |
| Friulian          |                |                    |
| Romanian          |                |                    |
| [ Woman ]         |                |                    |
| Latin             | 2425-267-13-27 | f e: - m i - n - a |
| French            | 2427-26-----   | f a - m - - - -    |
| Spanish           | -0-26-1928-27  | - e - m - b r - a  |
| Italian           | 24026267-13-27 | f e m m i - n - a  |
| PortugueseBrazil  | 240-260---29   | f e - m e - - - e  |
| Portuguese        | 240-2612---29  | f e - m j - - - e  |
| Catalan           | 240-26-1928-27 | f e - m - b r - a  |
| Walloon           | 2430-26-----   | f œ - m - - - -    |
| Friulian          | 2431-267-13-31 | f ε - m i - n - ε  |
| Romanian          | 240-260--120   | f e - m e - - j e  |
| [ Woman ]         |                |                    |
| Latin             | 2615327033026  | m u l i e r e m    |
| French            |                |                    |
| Spanish           | 261534-028--   | m u x - e r - -    |
| Italian           | 26635350---    | m o ł ł e - - -    |
| PortugueseBrazil  | 261535-036--   | m u ł - e x - -    |
| Portuguese        | 261535-028--   | m u ł - e r - -    |
| Catalan           | 261535-0---    | m u ł - e - - -    |
| Walloon           |                |                    |
| Friulian          | 2615--3733--   | m u - - i: r - -   |
| Romanian          | 2615-120330-   | m u - j e r e -    |
| [ Woman ]         |                |                    |
| Latin             | 2362671327     | d o m i n a        |
| French            | 232726---      | d a m - - -        |
| Spanish           | 236--3827      | d o - - n a        |
| Italian           | 23913-1327     | d o n - n a        |
| PortugueseBrazil  | 236--1329      | d o - - n e        |
| Portuguese        | 236--1329      | d o - - n e        |
| Catalan           | 239--134       | d o - - n e        |
| Walloon           | 233026---      | d œ m - - -        |
| Friulian          | 239--130       | d o - - n e        |
| Romanian          | 233926-134     | d oam - n e        |
| [ ManHumanBeing ] |                |                    |
| Latin             | 406267-13026   | h o m i - n e m    |
| French            | -926-----      | - o m - - - -      |

## Appendix 3 - Character File

|                   |                |                   |
|-------------------|----------------|-------------------|
| Spanish           | 626-19280--    | o m - b r e - -   |
| Italian           |                |                   |
| PortugueseBrazil  | 62641-----     | o m ěj - - - - -  |
| Portuguese        | 92641-----     | o m ěj - - - - -  |
| Catalan           | -9264----      | - o m ə - - - - - |
| Walloon           | -926-----      | - o m - - - - -   |
| Friulian          | -926-----      | - o m - - - - -   |
| Romanian          | -626-----      | - o m - - - - -   |
| [ ManHumanBeing ] |                |                   |
| Latin             | 40-6262        | h - o m o:        |
| French            | --42--         | - - ã - -         |
| Spanish           |                |                   |
| Italian           | -89266         | - w o m o         |
| PortugueseBrazil  |                |                   |
| Portuguese        |                |                   |
| Catalan           |                |                   |
| Walloon           |                |                   |
| Friulian          |                |                   |
| Romanian          |                |                   |
| [ Child ]         |                |                   |
| Latin             | 71324271320026 | i n f a n t e m   |
| French            | 43-2443----    | ã - f ã - - - -   |
| Spanish           | 713242713200-  | i n f a n t e -   |
| Italian           | --242713200-   | - - f a n t e -   |
| PortugueseBrazil  | 44-2445-467-   | ĩ - f ě - ŷ i -   |
| Portuguese        | 44-2445-2047-  | ĩ - f ě - t i -   |
| Catalan           |                |                   |
| Walloon           | 31-2443----    | ε - f ã - - - -   |
| Friulian          |                |                   |
| Romanian          |                |                   |
| [ Child ]         |                |                   |
| Latin             |                |                   |
| French            |                |                   |
| Spanish           | 137386         | n i n o           |
| Italian           | 137136         | n i n o           |
| PortugueseBrazil  | 1301341        | n e n ěj          |
| Portuguese        | 1301341        | n e n ěj          |
| Catalan           | 13013-         | n e n -           |
| Walloon           |                |                   |
| Friulian          |                |                   |
| Romanian          |                |                   |
| [ Wife ]          |                |                   |
| Latin             | -14486131427   | - s p o n s a     |
| French            | 0-4815-49-     | e - p u - z -     |
| Spanish           | 014486-1427    | e s p o - s a     |
| Italian           | -14489-4927    | - s p o - z a     |
| PortugueseBrazil  | 714486-4927    | i s p o - z a     |
| Portuguese        | 4716486-4929   | i ŷ p o - z e     |
| Catalan           | 414489-494     | ə s p o - z ə     |
| Walloon           |                |                   |
| Friulian          |                |                   |
| Romanian          |                |                   |

## Appendix 3 - Character File

### [ Wife ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 2615327033- | mul i e r -   |
| French           |             |               |
| Spanish          | 261534-028- | mu x - e r -  |
| Italian          | 26635350--  | mo Á Á e - -  |
| PortugueseBrazil | 261535-036- | mu Á - e x -  |
| Portuguese       | 261535-028- | mu Á - e r -  |
| Catalan          | 261535-0--  | mu Á - e - -  |
| Walloon          |             |               |
| Friulian         | 2615-3733-- | mu - i: r - - |
| Romanian         | 2615-120330 | mu - j e r e  |

### [ Husband ]

|                  |                |               |
|------------------|----------------|---------------|
| Latin            | 26273337201514 | ma r i: t u s |
| French           | 2627367---     | ma x i - - -  |
| Spanish          | 2627287506-    | ma r i ð o -  |
| Italian          | 2627337206-    | ma r i t o -  |
| PortugueseBrazil | 26272872315-   | ma r i d u -  |
| Portuguese       | 26292875015-   | mæ r i ð u -  |
| Catalan          | 262728720--    | ma r i t - -  |
| Walloon          |                |               |
| Friulian         | 2627333720--   | ma r i: t - - |
| Romanian         | 26433720--     | mæ r i t - -  |

### [ Husband ]

|                  |                |                  |
|------------------|----------------|------------------|
| Latin            | -1448613141514 | - s p o n s u s  |
| French           | 0-4815----     | e - p u - - - -  |
| Spanish          | 014486-146-    | e s p o - s o -  |
| Italian          | -14489-496-    | - s p o - z o -  |
| PortugueseBrazil | 714486-4915-   | i s p o - z u -  |
| Portuguese       | 4716486-4915-  | i f p o - z u -  |
| Catalan          | 414489-14--    | æ s p o - s - -  |
| Walloon          |                |                  |
| Friulian         | -14482-14--    | - s p o: - s - - |
| Romanian         |                |                  |

### [ Husband ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 1465171514 | s o k i u s  |
| French           |            |              |
| Spanish          |            |              |
| Italian          | 14946-6-   | s o f - o -  |
| PortugueseBrazil |            |              |
| Portuguese       |            |              |
| Catalan          |            |              |
| Walloon          |            |              |
| Friulian         |            |              |
| Romanian         | 14652---   | s o ts - - - |

### [ Mother ]

|                  |             |             |
|------------------|-------------|-------------|
| Latin            | 26532033026 | ma: t r e m |
| French           | 260-36--    | me - x - -  |
| Spanish          | 262750280-  | ma ð r e -  |
| Italian          | 265323330-  | ma: d r e - |
| PortugueseBrazil | 2654----    | mẽ - - - -  |
| Portuguese       | 2654----    | mẽ - - - -  |



## Appendix 3 - Character File

|                  |                |                  |
|------------------|----------------|------------------|
| Catalan          | 2627-284-      | m a - r ə -      |
| Walloon          | 260-55--       | m e - r - -      |
| Friulian         | 2627-337-      | m a - r i -      |
| Romanian         |                |                  |
| [ Father ]       |                |                  |
| Latin            | 482720330      | p a t r e        |
| French           | 480-36-        | p e - ʁ -        |
| Spanish          | 482750280      | p a ð r e        |
| Italian          | 485323330      | p a: d r e       |
| PortugueseBrazil | 4856---        | p a j - - -      |
| Portuguese       | 4856---        | p a j - - -      |
| Catalan          | 4827-284       | p a - r ə        |
| Walloon          | 4857-33-       | p e: - r -       |
| Friulian         | 4827-337       | p a - r i        |
| Romanian         |                |                  |
| [ Father ]       |                |                  |
| Latin            | 20272027       | t a t a          |
| French           |                |                  |
| Spanish          | 20272027       | t a t a          |
| Italian          | 20272027       | t a t a          |
| PortugueseBrazil | 20272027       | t a t a          |
| Portuguese       | 20272027       | t a t a          |
| Catalan          |                |                  |
| Walloon          |                |                  |
| Friulian         |                |                  |
| Romanian         | 2027204        | t a t ə          |
| [ Animal ]       |                |                  |
| Latin            | 27137262732727 | a n i m a l i a  |
| French           | 6--2627-12-    | o - - m a - j -  |
| Spanish          | 27327262738-27 | a l i m a ɲ - a  |
| Italian          |                |                  |
| PortugueseBrazil |                |                  |
| Portuguese       |                |                  |
| Catalan          |                |                  |
| Walloon          |                |                  |
| Friulian         | 130265332---   | n e m a: l - - - |
| Romanian         | -1342627-120   | - n ə m a - j e  |
| [ Animal ]       |                |                  |
| Latin            | 19251420727    | b e: s t i a     |
| French           |                |                  |
| Spanish          |                |                  |
| Italian          | 1971616-27     | b i f f - a      |
| PortugueseBrazil | 197-16-29      | b i - f - e      |
| Portuguese       | 197-16-29      | b i - f - e      |
| Catalan          |                |                  |
| Walloon          |                |                  |
| Friulian         | 19714---       | b i s - - -      |
| Romanian         |                |                  |
| [ Fish ]         |                |                  |
| Latin            | 4871451026     | p i s k e m      |
| French           |                |                  |

## Appendix 3 - Character File

|                  |                    |                           |
|------------------|--------------------|---------------------------|
| Spanish          | 48058---           | p e θ - - -               |
| Italian          | 48016160-          | p e ʃ ʃ e -               |
| PortugueseBrazil | 485916-7-          | p e j ʃ - i -             |
| Portuguese       | 486016-47-         | p e j ʃ - i -             |
| Catalan          | 48016---           | p e ʃ - - -               |
| Walloon          |                    |                           |
| Friulian         | 483114---          | p ε s - - -               |
| Romanian         | 48016200-          | p e ʃ t e -               |
| [ Fish ]         |                    |                           |
| Latin            |                    |                           |
| French           | 488271461          | p w a s ò                 |
| Spanish          |                    |                           |
| Italian          |                    |                           |
| PortugueseBrazil |                    |                           |
| Portuguese       |                    |                           |
| Catalan          |                    |                           |
| Walloon          | 48-314061          | p - ε h ò                 |
| Friulian         |                    |                           |
| Romanian         |                    |                           |
| [ Bird ]         |                    |                           |
| Latin            | 278026             | a w e m                   |
| French           |                    |                           |
| Spanish          | 27190-             | a b e -                   |
| Italian          |                    |                           |
| PortugueseBrazil | 27187-             | a v i -                   |
| Portuguese       | 271847-            | a v i -                   |
| Catalan          | 278--              | a w - -                   |
| Walloon          |                    |                           |
| Friulian         |                    |                           |
| Romanian         |                    |                           |
| [ Bird ]         |                    |                           |
| Latin            | -2787-51-032321526 | - a w i - k - e l l u m   |
| French           | 827---49-6----     | w a - - - z - o - - - -   |
| Spanish          |                    |                           |
| Italian          | --15-2046-3132326- | - - u - t ʃ - ε l l o -   |
| PortugueseBrazil |                    |                           |
| Portuguese       |                    |                           |
| Catalan          | --15--14-0-35--    | - - u - - s - e - ʎ - -   |
| Walloon          | --21--40-57----    | - - u: - - h - ε: - - - - |
| Friulian         | --15--461231-32--  | - - u - - ʃ j ε - l - -   |
| Romanian         |                    |                           |
| [ Bird ]         |                    |                           |
| Latin            | 48271414033026     | p a s s e r e m           |
| French           |                    |                           |
| Spanish          | 4827-3427286-      | p a - x a r o -           |
| Italian          | 482714140336-      | p a s s e r o -           |
| PortugueseBrazil | 4827-14292815-     | p a - s e r u -           |
| Portuguese       | 4827-14292815-     | p a - s e r u -           |
| Catalan          |                    |                           |
| Walloon          |                    |                           |
| Friulian         |                    |                           |
| Romanian         | 4827-144280-       | p a - s ə r e -           |

## Appendix 3 - Character File

### [ Dog ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 51-2713026 | k - a n e m  |
| French           | 161262---  | ʃ j ē - - -  |
| Spanish          | 51-2713--  | k - a n - -  |
| Italian          | 51-27130-  | k - a n e -  |
| PortugueseBrazil | 51-63---   | k - êw̃ - -  |
| Portuguese       | 51-63---   | k - êw̃ - -  |
| Catalan          | 51-27---   | k - a - - -  |
| Walloon          | 46-64---   | ʃ - ē - - -  |
| Friulian         | 65-2713--  | c - a n - -  |
| Romanian         | 51-66130-  | k - ij n e - |

### [ Louse ]

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Latin            | 48-02315-51321514 | p - e d u - k l u s |
| French           | 48-15-----        | p - u - - - - -     |
| Spanish          | 48126--34-6--     | p j o - - x - o - - |
| Italian          | 48-72395151126-   | p - i d ɔ k k j o - |
| PortugueseBrazil | 48-7-6-3515--     | p - i - o - Á u - - |
| Portuguese       | 48-7-6-3515--     | p - i - o - Á u - - |
| Catalan          | 48-6---35---      | p - o - - - Á - - - |
| Walloon          | 481215-----       | p j u - - - - -     |
| Friulian         | 48-0236-327--     | p - e d o - l i - - |
| Romanian         | 48-42315-51120-   | p - ə d u - k j e - |

### [ Snake ]

|                  |                    |                       |
|------------------|--------------------|-----------------------|
| Latin            | 14-03348-01320026  | s - e r p - e n t e m |
| French           | 14-03648-43----    | s - e ʁ p - ã - - - - |
| Spanish          | 14-0284812013200-  | s - e r p j e n t e - |
| Italian          | 14-03348-013200-   | s - e r p - e n t e - |
| PortugueseBrazil | 14-03648-64-467-   | s - e ʁ p - ê - ʃ i - |
| Portuguese       | 14-472848-64-2047- | s - i r p - ê - t i - |
| Catalan          | 14-43348-013---    | s - ə r p - e n - - - |
| Walloon          | 1412313648-64----  | s j ε ʁ p - ê - - - - |
| Friulian         | 14-273348-71320--  | s - a r p - i n t - - |
| Romanian         | 16-272848-0----    | ʃ - a r p - e - - - - |

### [ Worm ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | 803326026  | w e r m e m |
| French           | 18036---   | v e ʁ - - - |
| Spanish          | 19028260-  | b e r m e - |
| Italian          | 18033260-  | v e r m e - |
| PortugueseBrazil | 18036267-  | v e ʁ m i - |
| Portuguese       | 180282647- | v e r m i - |
| Catalan          | 18312826-- | v ε r m - - |
| Walloon          | 18123155-- | v j ε ʀ - - |
| Friulian         | 18123133-- | v j ε r - - |
| Romanian         | 1812033260 | v j e r m e |

### [ Tree ]

|                  |               |               |
|------------------|---------------|---------------|
| Latin            | 273319633026  | a r b o r e m |
| French           | 273619-36--   | a ʁ b - ʁ - - |
| Spanish          | 272867632--   | a r β o l - - |
| Italian          | 2732190286-   | a l b e r o - |
| PortugueseBrazil | 2736186287-   | a ʁ v o r i - |
| Portuguese       | 272818152847- | a r v u r i - |

## Appendix 3 - Character File

|                  |                 |                    |
|------------------|-----------------|--------------------|
| Catalan          | 27-19-284-      | a - b - r ə -      |
| Walloon          | 2-19----        | o - b - - - -      |
| Friulian         | 2733191532--    | a r b u l - -      |
| Romanian         | 2733196330-     | a r b o r e -      |
| [ Forest ]       |                 |                    |
| Latin            | 14732827        | s i l w a          |
| French           |                 |                    |
| Spanish          | 140321927       | s e l b a          |
| Italian          | 140321827       | s e l v a          |
| PortugueseBrazil | 143181827       | s ε w v a          |
| Portuguese       | 1431681829      | s ε ł v ε          |
| Catalan          | 140321927       | s e l b a          |
| Walloon          |                 |                    |
| Friulian         | 143132180       | s ε l v e          |
| Romanian         |                 |                    |
| [ Stick ]        |                 |                    |
| Latin            | 4853321514      | p a : l u s        |
| French           | 482732--        | p a l - -          |
| Spanish          | 4827326-        | p a l o -          |
| Italian          | 4827326-        | p a l o -          |
| PortugueseBrazil | 48278--         | p a w - -          |
| Portuguese       | 48278--         | p a w - -          |
| Catalan          | 482732--        | p a l - -          |
| Walloon          |                 |                    |
| Friulian         | 485332--        | p a : l - -        |
| Romanian         | 482728--        | p a r - -          |
| [ Fruit ]        |                 |                    |
| Latin            | 243321-51201514 | f r u : - k t u s  |
| French           | 2436697----     | f ʁ ɥ i - - - -    |
| Spanish          | 242815--206-    | f r u - - t o -    |
| Italian          | 243315-20206-   | f r u - t t o -    |
| PortugueseBrazil | 242815--2029-   | f r u - - t ε -    |
| Portuguese       | 242815--2029-   | f r u - - t ε -    |
| Catalan          | 24281512-20--   | f r u j - t - -    |
| Walloon          | 245522-----     | f ʁ y - - - - -    |
| Friulian         | 243315--20--    | f r u - - t - -    |
| Romanian         | 243315-5120--   | f r u - k t - -    |
| [ Seed ]         |                 |                    |
| Latin            | 142526013       | s e : m e n        |
| French           |                 |                    |
| Spanish          |                 |                    |
| Italian          | 140260-         | s e m e -          |
| PortugueseBrazil |                 |                    |
| Portuguese       |                 |                    |
| Catalan          |                 |                    |
| Walloon          |                 |                    |
| Friulian         |                 |                    |
| Romanian         |                 |                    |
| [ Seed ]         |                 |                    |
| Latin            | 14026-01320714  | s e m - e n t i s  |
| French           | 14426-43---14   | s ə m - ɑ̃ - - - s |

## Appendix 3 - Character File

|                  |                 |                     |
|------------------|-----------------|---------------------|
| Spanish          | 1472612013200-  | s i m j e n t e -   |
| Italian          | 14026-013200-   | s e m - e n t e -   |
| PortugueseBrazil | 14026-64-467-   | s e m - ã - t f i - |
| Portuguese       | 144726-64-2047- | s i m - ã - t i -   |
| Catalan          | 14426-013---    | s ə m - e n - -     |
| Walloon          | 14726-64-14--   | s i m - ã - s - -   |
| Friulian         | 14026-31134631- | s e m - ε n t f ε - |
| Romanian         | 14426-4713464-  | s ə m - i n t f ə - |
| [ Seed ]         |                 |                     |
| Latin            | 13353131526     | g r a : n u m       |
| French           | 1363113--       | g ʁ ε n - -         |
| Spanish          | 12827136-       | g r a n o -         |
| Italian          | 13327136-       | g r a n o -         |
| PortugueseBrazil | 12863---        | g r ẽw - -          |
| Portuguese       | 12863---        | g r ẽw - -          |
| Catalan          | 12827---        | g r a - - -         |
| Walloon          | 133713--        | g r i n - -         |
| Friulian         | 1332713--       | g r a n - -         |
| Romanian         | 13370---        | g r i w - -         |
| [ Leaf ]         |                 |                     |
| Latin            | 24-632727       | f - o l i a         |
| French           | 24-3012--       | f - œ j - -         |
| Spanish          | --634-27        | - - o x - a         |
| Italian          | 24-9353527      | f - ɔ ʎ ʎ a         |
| PortugueseBrazil | 24-635-29       | f - o ʎ - ɐ         |
| Portuguese       | 24-635-29       | f - o ʎ - ɐ         |
| Catalan          | 24-1535-4       | f - u ʎ - ə         |
| Walloon          | 24-912--        | f - ɔ j - -         |
| Friulian         | 2480--0         | f w e - - e         |
| Romanian         | 2439-120-       | f ɔ a - j e -       |
| [ Leaf ]         |                 |                     |
| Latin            | 243361323027    | f r o n d e a       |
| French           |                 |                     |
| Spanish          |                 |                     |
| Italian          | 243361371-27    | f r o n d z - a     |
| PortugueseBrazil | 24286114-29-    | f r õ s - ɐ -       |
| Portuguese       | 24286114-29-    | f r õ s - ɐ -       |
| Catalan          |                 |                     |
| Walloon          |                 |                     |
| Friulian         |                 |                     |
| Romanian         | 2428151349-4    | f r u n z - ə       |
| [ Root ]         |                 |                     |
| Latin            | -3353233751026  | - r a : d i k e m   |
| French           |                 |                     |
| Spanish          | -3327-758--     | - r a - i θ - -     |
| Italian          |                 |                     |
| PortugueseBrazil | -3627-714--     | - ʁ a - i s - -     |
| Portuguese       | -3629-716--     | - ʁ ɐ - i ʃ - -     |
| Catalan          | 43331-32---     | ə r ε - l - - -     |
| Walloon          |                 |                     |
| Friulian         |                 |                     |
| Romanian         |                 |                     |

## Appendix 3 - Character File

---

### [ Root ]

|                  |             |                 |
|------------------|-------------|-----------------|
| Latin            | 33532337510 | r a : d i : k e |
| French           | 3627237--   | ʁ a d i - -     |
| Spanish          |             |                 |
| Italian          | 33272337460 | r a d i : ʃ e   |
| PortugueseBrazil |             |                 |
| Portuguese       |             |                 |
| Catalan          |             |                 |
| Walloon          |             |                 |
| Friulian         |             |                 |
| Romanian         |             |                 |

### [ Root ]

|                  |                  |                       |
|------------------|------------------|-----------------------|
| Latin            | 3353233751371327 | r a : d i : k i : n a |
| French           | 3627--14713-     | ʁ a - - s i n -       |
| Spanish          |                  |                       |
| Italian          |                  |                       |
| PortugueseBrazil |                  |                       |
| Portuguese       |                  |                       |
| Catalan          |                  |                       |
| Walloon          | 5531--143113-    | ʁ ε - - s ε n -       |
| Friulian         |                  |                       |
| Romanian         | 334234467134     | r ə d ə ʃ i n ə       |

### [ BarkOfATree ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 5163320751026 | k o r t i k e m |
| French           |               |                 |
| Spanish          |               |                 |
| Italian          | 51633207460-  | k o r t i ʃ e - |
| PortugueseBrazil | 51936467147-  | k ɔ ʁ ʃ i s i - |
| Portuguese       | 519282071447- | k ɔ r t i s i - |
| Catalan          |               |                 |
| Walloon          |               |                 |
| Friulian         |               |                 |
| Romanian         |               |                 |

### [ BarkOfATree ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | 5163320751027  | k o r t i k e a |
| French           |                |                 |
| Spanish          | 5162820058-27  | k o r t e θ - a |
| Italian          | 51633200204627 | k o r t e t ʃ a |
| PortugueseBrazil | 516364671429-  | k o ʁ ʃ i s e - |
| Portuguese       | 5115282071429- | k u r t i s e - |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |

### [ BarkOfATree ]

|                  |                |                     |
|------------------|----------------|---------------------|
| Latin            | -1451-63320027 | - s k - o r t e a   |
| French           | 0-51-63614--   | e - k - o ʁ s - -   |
| Spanish          |                |                     |
| Italian          | -1451-93352-27 | - s k - ɔ r t s - a |
| PortugueseBrazil |                |                     |
| Portuguese       |                |                     |



## Appendix 3 - Character File

|          |                |                       |
|----------|----------------|-----------------------|
| Catalan  | 41451-93314-4  | ə s k - ɔ r s - ə     |
| Walloon  | -145182714---  | - s k w a s - - -     |
| Friulian | -14518273352-0 | - s k w a r t s - e   |
| Romanian | -1451-392852-4 | - s k - ɔ a r t s - ə |

### [ Flower ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 2432233026 | f l o: r e m  |
| French           | 24323036-- | f l œ ʁ - -   |
| Spanish          | 2432628--  | f l o r - -   |
| Italian          | 24122280-  | f j o: r e -  |
| PortugueseBrazil | 2432636--  | f l o ʁ - -   |
| Portuguese       | 2432628--  | f l o r - -   |
| Catalan          | 24329---   | f l ɔ - - -   |
| Walloon          | 24327236-- | f l ø: ʁ - -  |
| Friulian         | 2432233--  | f l o: r - -  |
| Romanian         | 243239280- | f l ɔ a r e - |

### [ Grass ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | -400331927 | - h e r b a |
| French           | --313619-  | - - ε ʁ b - |
| Spanish          | 5-0281927  | j - e r b a |
| Italian          | --31331927 | - - ε r b a |
| PortugueseBrazil | --0361829  | - - e ʁ v e |
| Portuguese       | --31281829 | - - ε r v e |
| Catalan          | --033194   | - - e r b ə |
| Walloon          | 12-31-48-  | j - ε - p - |
| Friulian         | 12-2733190 | j - a r b e |
| Romanian         | 12-2728194 | j - a r b ə |

### [ Grass ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            | 1335326013  | g r a: m e n |
| French           | 13627263113 | g ʁ a m ε n  |
| Spanish          | 128272627-  | g r a m a -  |
| Italian          |             |              |
| PortugueseBrazil | 128452629-  | g r ê m e -  |
| Portuguese       | 128292629-  | g r e m e -  |
| Catalan          | 1282726--   | g r a m - -  |
| Walloon          |             |              |
| Friulian         |             |              |
| Romanian         |             |              |

### [ Rope ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 242113-026 | f u: n - e m |
| French           |            |              |
| Spanish          |            |              |
| Italian          | 241513-0-  | f u n - e -  |
| PortugueseBrazil |            |              |
| Portuguese       |            |              |
| Catalan          |            |              |
| Walloon          |            |              |
| Friulian         |            |              |
| Romanian         | 241513120- | f u n j e -  |

### [ Rope ]

|        |            |             |
|--------|------------|-------------|
| Latin  | 3301420026 | r e s t e m |
| French |            |             |

## Appendix 3 - Character File

|                  |                |                  |
|------------------|----------------|------------------|
| Spanish          | 287142027-     | r i s t a -      |
| Italian          | 3331142027-    | r e s t a -      |
| PortugueseBrazil | 363116467-     | ʁ e ʃ t i -      |
| Portuguese       | 360162047-     | ʁ e ʃ t i -      |
| Catalan          |                |                  |
| Walloon          |                |                  |
| Friulian         |                |                  |
| Romanian         |                |                  |
| [ Skin ]         |                |                  |
| Latin            |                |                  |
| French           | 51827---13-    | k w a - - - n -  |
| Spanish          |                |                  |
| Italian          | 51-6200131327  | k - o t e n n a  |
| PortugueseBrazil | 51-6107--29    | k - o ɔ̃ i - - ɐ |
| Portuguese       | 51-6237--29    | k - o d i - - ɐ  |
| Catalan          | 51-6--13134    | k - o - - n n ə  |
| Walloon          |                |                  |
| Friulian         |                |                  |
| Romanian         |                |                  |
| [ Skin ]         |                |                  |
| Latin            | 48-03232026    | p - e l l e m    |
| French           | 48-6----       | p - o - - - -    |
| Spanish          | 4812032---     | p j e l - - -    |
| Italian          | 48-032320-     | p - e l l e -    |
| PortugueseBrazil | 48-31-327-     | p - ɛ - l i -    |
| Portuguese       | 48-0-3247-     | p - e - l i -    |
| Catalan          | 48-0-35--      | p - e - ʎ - -    |
| Walloon          | 481227----     | p j a - - - -    |
| Friulian         | 48123132---    | p j ɛ l - - -    |
| Romanian         | 48120-320-     | p j e - l e -    |
| [ Meat ]         |                |                  |
| Latin            | 51273313026    | k a r n e m      |
| French           | 163136---      | ʃ ɛ ʁ - - -      |
| Spanish          | 512728130-     | k a r n e -      |
| Italian          | 512733130-     | k a r n e -      |
| PortugueseBrazil | 512736137-     | k a ʁ n i -      |
| Portuguese       | 5127281347-    | k a r n i -      |
| Catalan          | 51273313--     | k a r n - -      |
| Walloon          | 4673----       | ʃ ɔ̃ - - - -     |
| Friulian         | 655333---      | c a r - - -      |
| Romanian         | 512728130-     | k a r n e -      |
| [ Meat ]         |                |                  |
| Latin            | 8378-0132327   | w i w - e n d a  |
| French           | 1812--43-23-   | v j - - ã - d -  |
| Spanish          | 19719120132327 | b i b j e n d a  |
| Italian          | 18718-27132327 | v i v - a n d a  |
| PortugueseBrazil | 18718-64-2327  | v i v - ê - d a  |
| Portuguese       | 18718-64-2329  | v i v - ê - d ɐ  |
| Catalan          |                |                  |
| Walloon          |                |                  |
| Friulian         |                |                  |
| Romanian         |                |                  |

## Appendix 3 - Character File

### [ Blood ]

|                  |                 |                                |
|------------------|-----------------|--------------------------------|
| Latin            | 14271374-713026 | s a n g <sup>w</sup> - i n e m |
| French           | 1443-----       | s ã - - - - -                  |
| Spanish          | 1427751-280--   | s a ŋ g - r e - -              |
| Italian          | 142713180---    | s a n g w e - - -              |
| PortugueseBrazil | 1445-1-7---     | s ã - g - i - - -              |
| Portuguese       | 1445-1-47---    | s ã - g - i - - -              |
| Catalan          | 142775-----     | s a ŋ - - - - -                |
| Walloon          | 1476-1-----     | s ô: - g - - - -               |
| Friulian         | 14277551-----   | s a ŋ k - - - -                |
| Romanian         | 14471310-0---   | s i n ț - e - - -              |

### [ Bone ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | --614141526 | - - o s s u m |
| French           | --9-14--    | - - ɔ - s - - |
| Spanish          | -80146--    | - 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          | --9-16--    | - - ɔ - ʃ - - |
| Friulian         | 18831-14--  | v w ε - s - - |
| Romanian         | --6-14--    | - - o - s - - |

### [ FatNoun ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | 2723048026 | a d e p e m |
| French           |            |             |
| Spanish          |            |             |
| Italian          | 27237480-  | a d i p e - |
| PortugueseBrazil |            |             |
| Portuguese       |            |             |
| Catalan          |            |             |
| Walloon          |            |             |
| Friulian         |            |             |
| Romanian         |            |             |

### [ FatNoun ]

|                  |           |            |
|------------------|-----------|------------|
| Latin            |           |            |
| French           | 1363114-  | g ʁ ε s -  |
| Spanish          | 128271427 | g r a s a  |
| Italian          |           |            |
| PortugueseBrazil | 128271629 | g r a ʃ ε  |
| Portuguese       | 128271629 | g r a ʃ ε  |
| Catalan          | 128016-   | g r e ʃ -  |
| Walloon          | 51557377- | k ʁ ɔ: ç - |
| Friulian         |           |            |
| Romanian         |           |            |

### [ Egg ]

|                  |         |            |
|------------------|---------|------------|
| Latin            | -281526 | - o: w u m |
| French           | -3024-- | - œ f - -  |
| Spanish          | 80196-  | w e b o -  |
| Italian          | 89186-  | w ɔ v o -  |
| PortugueseBrazil | -61815- | - o v u -  |
| Portuguese       | -61815- | - o v u -  |

## Appendix 3 - Character File

|                  |            |              |
|------------------|------------|--------------|
| Catalan          | -98--      | - ɔ w - -    |
| Walloon          | -21---     | - u: - - -   |
| Friulian         | -2124--    | - u: f - -   |
| Romanian         | -68--      | - o w - -    |
| [ Horn ]         |            |              |
| Latin            | 51-6331321 | k - o r n u: |
| French           | 51-93613-  | k - ɔ ʁ n -  |
| Spanish          | 518028136  | k w e r n o  |
| Italian          | 51-933136  | k - ɔ r n o  |
| PortugueseBrazil | 51-6361315 | k - o ʁ n u  |
| Portuguese       | 51-6281315 | k - o r n u  |
| Catalan          | 51-93313-  | k - ɔ r n -  |
| Walloon          | 51831-13-  | k w ɛ - n -  |
| Friulian         | 5185333--  | k w a: r - - |
| Romanian         | 51-63313-  | k - o r n -  |
| [ Tail ]         |            |              |
| Latin            | 51782327-  | k aʊd a -    |
| French           | 5179---    | k ø - - -    |
| Spanish          | 5163227-   | k o l a -    |
| Italian          | 5162327-   | k o d a -    |
| PortugueseBrazil | 512782329  | k a w d ɐ    |
| Portuguese       | 512782329  | k a w d ɐ    |
| Catalan          | 5115-27-   | k u - a -    |
| Walloon          | 5198--     | k ɔ w - -    |
| Friulian         | 5192331-   | k ɔ d ɛ -    |
| Romanian         | 6539234-   | c ɔad ə -    |
| [ Feather ]      |            |              |
| Latin            | 4832212627 | p l u: m a   |
| French           | 48322226-  | p l y m -    |
| Spanish          | 4832152627 | p l u m a    |
| Italian          | 4812152627 | p j u m a    |
| PortugueseBrazil |            |              |
| Portuguese       |            |              |
| Catalan          | 48326264   | p l o m ə    |
| Walloon          | 4832926-   | p l ɔ m -    |
| Friulian         | 4832152631 | p l u m ɛ    |
| Romanian         |            |              |
| [ Feather ]      |            |              |
| Latin            | 480131327  | p e n n a    |
| French           | 4831-13-   | p ɛ - n -    |
| Spanish          | 480-3827   | p e - ɲ a    |
| Italian          | 480131327  | p e n n a    |
| PortugueseBrazil | 480-1329   | p e - n ɐ    |
| Portuguese       | 480-1329   | p e - n ɐ    |
| Catalan          | 4831-384   | p ɛ - ɲ ə    |
| Walloon          | 480-13-    | p e - n -    |
| Friulian         | 4831-130   | p ɛ - n e    |
| Romanian         | 4827-134   | p a - n ə    |
| [ Hair ]         |            |              |
| Latin            | 48-7321514 | p - i l u s  |
| French           | 4882732--  | p w a l - -  |

## Appendix 3 - Character File

|                  |                 |                  |
|------------------|-----------------|------------------|
| Spanish          | 48-0326-        | p - e l o -      |
| Italian          | 48-0326-        | p - e l o -      |
| PortugueseBrazil | 48-03215-       | p - e l u -      |
| Portuguese       | 48-473215-      | p - i l u -      |
| Catalan          | 48-3132--       | p - ε l - -      |
| Walloon          |                 |                  |
| Friulian         | 48-2532--       | p - e: l - -     |
| Romanian         | 48-428--        | p - ə r - -      |
| [ Hair ]         |                 |                  |
| Latin            | 512748732321514 | k a p i l l u s  |
| French           | 1641879----     | ʃ ə v ø - - -    |
| Spanish          | 5127190-56-     | k a b e - j o -  |
| Italian          | 512748032326-   | k a p e l l o -  |
| PortugueseBrazil | 5127190-3215-   | k a b e - l u -  |
| Portuguese       | 5129670-3215-   | k ɐ β e - l u -  |
| Catalan          | 5141931-35--    | k ə b ε - ʎ - -  |
| Walloon          | 4671812--27-    | ʃ i v j - - a -  |
| Friulian         | 65271859----    | c a v ej - - - - |
| Romanian         |                 |                  |
| [ Head ]         |                 |                  |
| Latin            | 5127487-20727   | k a p i - t i a  |
| French           | 1641831----     | ʃ ə v ε - - - -  |
| Spanish          | 5127670-58-27   | k a β e - θ - a  |
| Italian          | 512718020201427 | k a v e t t s a  |
| PortugueseBrazil | 5127190-14-29   | k a b e - s - ɐ  |
| Portuguese       | 5129670-14-29   | k ɐ β e - s - ɐ  |
| Catalan          | 512748-----     | k a p - - - - -  |
| Walloon          |                 |                  |
| Friulian         | 655324-----     | c a: f - - - - - |
| Romanian         | 512748-----     | k a p - - - - -  |
| [ Head ]         |                 |                  |
| Latin            | 200142027       | t e s t a        |
| French           | 2031-20-        | t ε - t -        |
| Spanish          |                 |                  |
| Italian          | 2031142027      | t ε s t a        |
| PortugueseBrazil | 2031142029      | t ε s t ɐ        |
| Portuguese       | 2031162029      | t ε ʃ t ɐ        |
| Catalan          | 20014204        | t e s t ə        |
| Walloon          | 463114--        | ʃ ε s - -        |
| Friulian         | 203114200       | t ε s t e        |
| Romanian         | 528014204       | ts ɛ a s t ə     |
| [ Ear ]          |                 |                  |
| Latin            | 2337513227-     | o: r i k l a -   |
| French           | 63659----       | o ʁ ej - - - -   |
| Spanish          | 6280-34-27      | o r e - x - a    |
| Italian          | 633051511227    | o r e k k j a    |
| PortugueseBrazil | 6280--3529      | o r e - - ʎ ɐ    |
| Portuguese       | 62860--3529     | o r ɐ j - - ʎ ɐ  |
| Catalan          | 152831--354     | u r ε - - ʎ ə    |
| Walloon          | 95556----       | ɔ ʀ aj - - - -   |
| Friulian         | 6330--320       | o r e - - l e    |
| Romanian         | 15330-51-0      | u r e - k - e    |

## Appendix 3 - Character File

### [ Eye ]

|                  |               |                  |
|------------------|---------------|------------------|
| Latin            | -6-5115321514 | - o - k u l u s  |
| French           | -30-12----    | - æ - j - - - -  |
| Spanish          | -6-34-6--     | - o - x - o - -  |
| Italian          | -95151-126-   | - ɔ k k - j o -  |
| PortugueseBrazil | -6---3515-    | - o - - - ʎ u -  |
| Portuguese       | -6---3515-    | - o - - - ʎ u -  |
| Catalan          |               |                  |
| Walloon          | -21-12----    | - u: - j - - - - |
| Friulian         | 186--327--    | v o - - l i - -  |
| Romanian         | -6-81----     | - o - kʲ - - - - |

### [ Nose ]

|                  |            |            |
|------------------|------------|------------|
| Latin            | 1353141514 | n a: s u s |
| French           | 130---     | n e - - -  |
| Spanish          | 1327146-   | n a s o -  |
| Italian          | 1353146-   | n a: s o - |
| PortugueseBrazil |            |            |
| Portuguese       |            |            |
| Catalan          | 132714--   | n a s - -  |
| Walloon          | 130---     | n e - - -  |
| Friulian         | 135314--   | n a: s - - |
| Romanian         | 132714--   | n a s - -  |

### [ Nose ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            |             |              |
| French           |             |              |
| Spanish          | 132728758-  | n a r i θ -  |
| Italian          | 1327337460  | n a r i ʎ e  |
| PortugueseBrazil | 132728714-  | n a r i s -  |
| Portuguese       | 132928716-  | n ɐ r i ʃ -  |
| Catalan          | 1353331114- | n a: r i s - |
| Walloon          |             |              |
| Friulian         |             |              |
| Romanian         |             |              |

### [ Mouth ]

|                  |            |           |
|------------------|------------|-----------|
| Latin            | 1915515127 | b u k k a |
| French           | 1915-16-   | b u - ʃ - |
| Spanish          | 196-5127   | b o - k a |
| Italian          | 196515127  | b o k k a |
| PortugueseBrazil | 196-5129   | b o - k ɐ |
| Portuguese       | 196-5129   | b o - k ɐ |
| Catalan          | 196-514    | b o - k ə |
| Walloon          | 19951--    | b ɔ k - - |
| Friulian         | 199-6531   | b ɔ - c ɛ |
| Romanian         | 1915-514   | b u - k ə |

### [ Mouth ]

|                  |         |         |
|------------------|---------|---------|
| Latin            | 1153227 | g u l a |
| French           | 13032-  | g æ l - |
| Spanish          | 163227  | g o l a |
| Italian          | 163227  | g o l a |
| PortugueseBrazil |         |         |
| Portuguese       |         |         |



## Appendix 3 - Character File

---

|                  |              |                |
|------------------|--------------|----------------|
| Catalan          | 16324        | g o l ə        |
| Walloon          | 17212-       | g ø: j -       |
| Friulian         | 19320        | g ɔ l e        |
| Romanian         | 115284       | g u r ə        |
| [ Tooth ]        |              |                |
| Latin            | 23-01320026  | d - e n t e m  |
| French           | 23-43----    | d - ā - - - -  |
| Spanish          | 2312013200-  | d j e n t e -  |
| Italian          | 233113200--  | d ε n t e - -  |
| PortugueseBrazil | 2364-467--   | d ě - ŋ i - -  |
| Portuguese       | 2364-2047--  | d ě - t i - -  |
| Catalan          |              |                |
| Walloon          | 2364-----    | d ě - - - - -  |
| Friulian         | 2371320---   | d i n t - - -  |
| Romanian         | 23713200--   | d i n t e - -  |
| [ Fingernail ]   |              |                |
| Latin            | 15131-153227 | u n g - u l a  |
| French           | 61-1--32-    | õ - g - - l -  |
| Spanish          | 1538----27   | u ɲ - - - - a  |
| Italian          | 1513112--27  | u n g j - - a  |
| PortugueseBrazil | 1538----29   | u ɲ - - - - e  |
| Portuguese       | 1538----29   | u ɲ - - - - e  |
| Catalan          |              |                |
| Walloon          | 61-1----     | õ - g - - - -  |
| Friulian         | 9751-153231  | ɔ ŋ g - u l ε  |
| Romanian         | 1513112--0   | u n g j - - e  |
| [ Foot ]         |              |                |
| Latin            | 48-0-23026   | p - e - d e m  |
| French           | 48120----    | p j e - - - -  |
| Spanish          | 48120----    | p j e - - - -  |
| Italian          | 481257-230-  | p j ε: - d e - |
| PortugueseBrazil | 48-31----    | p - ε - - - -  |
| Portuguese       | 48-31----    | p - ε - - - -  |
| Catalan          | 48-318---    | p - ε w - - -  |
| Walloon          | 48-37----    | p - i: - - - - |
| Friulian         | 48-37-20--   | p - i: - t - - |
| Romanian         | 487049---    | p i e z - - -  |
| [ Leg ]          |              |                |
| Latin            | 127261927    | g a m b a      |
| French           | 343-19-      | ʒ ā - b -      |
| Spanish          | 127261927    | g a m b a      |
| Italian          | 127261927    | g a m b a      |
| PortugueseBrazil |              |                |
| Portuguese       |              |                |
| Catalan          | 512726194    | k a m b ə      |
| Walloon          | 1082-48-     | ɕ ā - p -      |
| Friulian         | 832726190    | ʃ a m b e      |
| Romanian         | 12726194     | g a m b ə      |
| [ Leg ]          |              |                |
| Latin            | 480331327-   | p e r n a -    |
| French           |              |                |

## Appendix 3 - Character File

|                  |                   |                        |
|------------------|-------------------|------------------------|
| Spanish          | 48120281327       | p j e r n a            |
| Italian          | 483133136-        | p e r n o -            |
| PortugueseBrazil | 4831361329-       | p e ʁ n e -            |
| Portuguese       | 4831281329-       | p e r n e -            |
| Catalan          | 483133134-        | p e r n ə -            |
| Walloon          |                   |                        |
| Friulian         |                   |                        |
| Romanian         | 12726194-         | g a m b ə -            |
| [ Leg ]          |                   |                        |
| Latin            | 480-2076321514    | p e - t i o l u s      |
| French           |                   |                        |
| Spanish          | 480-5876326-      | p e - θ i o l o -      |
| Italian          | 4872046-9326-     | p i t ʃ - ɔ l o -      |
| PortugueseBrazil |                   |                        |
| Portuguese       |                   |                        |
| Catalan          |                   |                        |
| Walloon          |                   |                        |
| Friulian         | 483151632----     | p e k o l - - - -      |
| Romanian         | 487-4612633--     | p i - ʃ j o r - -      |
| [ Knee ]         |                   |                        |
| Latin            | 1-0137-5115321526 | g - e n i - k u l u m  |
| French           | 3-41315-----      | ʒ - ə n u - - - - -    |
| Spanish          | --7136-346---     | - - i n o - x o - - -  |
| Italian          | 10-7139515112-6-  | ɕ - i n ɔ k k j - o -  |
| PortugueseBrazil | 3150-----3515-    | ʒ u e - - - - - ʎ u -  |
| Portuguese       | 3829-----3515-    | ʒ w e - - - - - ʎ u -  |
| Catalan          | 3-4136---35--     | ʒ - ə n o - - - ʎ - -  |
| Walloon          | 10-7139-----      | ɕ - i n ɔ - - - - -    |
| Friulian         | 10-0136---327-    | ɕ - e n o - - - l i -  |
| Romanian         | 10-013151381----  | ɕ - e n u n k' - - - - |
| [ Hand ]         |                   |                        |
| Latin            | 2627131526        | m a n u m              |
| French           | 2664---           | m ẽ - - - -            |
| Spanish          | 2627136-          | m a n o -              |
| Italian          | 2653136-          | m aː n o -             |
| PortugueseBrazil | 2663---           | m ẽw̃ - - -            |
| Portuguese       | 2663---           | m ẽw̃ - - -            |
| Catalan          |                   |                        |
| Walloon          | 2664---           | m ẽ - - - -            |
| Friulian         | 262775--          | m a ŋ - - -            |
| Romanian         | 2647134-          | m i n ə -              |
| [ Wing ]         |                   |                        |
| Latin            | 533227            | aː l a                 |
| French           | 032-              | e l -                  |
| Spanish          | 273227            | a l a                  |
| Italian          | 273227            | a l a                  |
| PortugueseBrazil | 27--              | a - -                  |
| Portuguese       | 27--              | a - -                  |
| Catalan          | 27324             | a l ə                  |
| Walloon          | 032-              | e l -                  |
| Friulian         | 27320             | a l e                  |
| Romanian         |                   |                        |

## Appendix 3 - Character File

### [ Belly ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 8-0132033026  | w - e n t r e m |
| French           | 18-43-2036--  | v - ã - t ʁ - - |
| Spanish          | 191201320280- | b j e n t r e - |
| Italian          |               |                 |
| PortugueseBrazil |               |                 |
| Portuguese       |               |                 |
| Catalan          | 19-01320284-  | b - e n t r ə - |
| Walloon          | 18-62-20---   | v - ě - t - - - |
| Friulian         | 1871320337--  | v i n t r i - - |
| Romanian         | 1871320330--  | v i n t r e - - |

### [ Belly ]

|                  |                |                   |
|------------------|----------------|-------------------|
| Latin            | 48271320751026 | p a n t i k e m   |
| French           | 4843-14----    | p ã - s - - - -   |
| Spanish          | 48271358---27  | p a n θ - - - a   |
| Italian          | 48271346--27-  | p a n ʃ - - a -   |
| PortugueseBrazil | 4845-14--29-   | p ẽ - s - - ɐ -   |
| Portuguese       | 4845-14--29-   | p ẽ - s - - ɐ -   |
| Catalan          | 48273816--4-   | p a n ʃ - - ə -   |
| Walloon          | 4882-14----    | p ã - s - - - -   |
| Friulian         | 48271352--0-   | p a n t s - - e - |
| Romanian         | 484713200460-  | p i n t e ʃ e -   |

### [ Guts ]

|                  |                 |                   |
|------------------|-----------------|-------------------|
| Latin            | 713200335313027 | i n t e r a n e a |
| French           | 43-20-3627--12  | ã - t - ʁ a - - j |
| Spanish          | 01320-282738-27 | e n t - r a ɲ - a |
| Italian          |                 |                   |
| PortugueseBrazil | 44-20-284538-29 | ĩ - t - r ẽ ɲ - ɐ |
| Portuguese       | 64-20-282938-29 | ẽ - t - r ɐ ɲ - ɐ |
| Catalan          | 41320-282738-4  | ə n t - r a ɲ - ə |
| Walloon          |                 |                   |
| Friulian         |                 |                   |
| Romanian         |                 |                   |

### [ Neck ]

|                  |              |               |
|------------------|--------------|---------------|
| Latin            | 51-632321526 | k - o l l u m |
| French           | 51-15----    | k - u - - - - |
| Spanish          | 5180-56-     | k w e - j o - |
| Italian          | 51-632326-   | k - o l l o - |
| PortugueseBrazil | 51-9-3215-   | k - ɔ - l u - |
| Portuguese       | 51-9-3215-   | k - ɔ - l u - |
| Catalan          | 51-9-35--    | k - ɔ - ʎ - - |
| Walloon          |              |               |
| Friulian         | 51831-32--   | k w ɛ - l - - |
| Romanian         |              |               |

### [ Back ]

|                  |              |               |
|------------------|--------------|---------------|
| Latin            | 23-633141526 | d - o r s u m |
| French           | 23-6----     | d - o - - - - |
| Spanish          |              |               |
| Italian          | 23-914146-   | d - ɔ s s o - |
| PortugueseBrazil |              |               |
| Portuguese       |              |               |

## Appendix 3 - Character File

|          |           |               |
|----------|-----------|---------------|
| Catalan  | 23-6-14-- | d - o - s - - |
| Walloon  | 23-9----  | d - ɔ - - - - |
| Friulian | 2380-14-- | d w e - s - - |
| Romanian | 23-6----  | d - o - - - - |

### [ Back ]

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Latin            | -14482720153227 | - s p a t u l a |
| French           | 0-486--32-      | e - p o - - l - |
| Spanish          | 014482732-2327  | e s p a l - d a |
| Italian          | -14482732-3227  | - s p a l - l a |
| PortugueseBrazil | 716482723-829   | i ʃ p a d - w e |
| Portuguese       | 716482723-829   | i ʃ p a d - w e |
| Catalan          | 414482735-354   | ə s p a ʎ - ʎ ə |
| Walloon          | -144827--32-    | - s p a - - l - |
| Friulian         | -144827--3231   | - s p a - - l ɛ |
| Romanian         | -14482720--0    | - s p a t - - e |

### [ Breast ]

|                  |           |            |
|------------------|-----------|------------|
| Latin            | 147131514 | s i n u s  |
| French           | 1464---   | s ẽ - - -  |
| Spanish          | 140136-   | s e n o -  |
| Italian          | 140136-   | s e n o -  |
| PortugueseBrazil | 1459-15-  | s ej - u - |
| Portuguese       | 1460-15-  | s øj - u - |
| Catalan          | 147---    | s i - - -  |
| Walloon          |           |            |
| Friulian         | 14013--   | s e n - -  |
| Romanian         | 142713--  | s a n - -  |

### [ Breast ]

|                  |              |                |
|------------------|--------------|----------------|
| Latin            | 48-051201514 | p - e k t u s  |
| French           | 48-7----     | p - i - - - -  |
| Spanish          | 48-0-466-    | p - e - ʎ o -  |
| Italian          | 48-3120206-  | p - ɛ t t o -  |
| PortugueseBrazil | 48-59-2015-  | p - ej - t u - |
| Portuguese       | 48-60-2015-  | p - øj - t u - |
| Catalan          | 48-7-20--    | p - i - t - -  |
| Walloon          |              |                |
| Friulian         | 48-31-20--   | p - ɛ - t - -  |
| Romanian         | 481204820--  | p j e p t - -  |

### [ Heart ]

|                  |          |            |
|------------------|----------|------------|
| Latin            | 51-633-  | k - o r -  |
| French           | 51-3036- | k - œ ʁ -  |
| Spanish          |          |            |
| Italian          | 5189330  | k w ɔ r e  |
| PortugueseBrazil | 51-936-  | k - ɔ ʁ -  |
| Portuguese       | 51-628-  | k - o r -  |
| Catalan          | 51-933-  | k - ɔ r -  |
| Walloon          | 51-2136- | k - u: ʁ - |
| Friulian         | 51-2133- | k - u: r - |
| Romanian         |          |            |

### [ Heart ]

|        |           |           |
|--------|-----------|-----------|
| Latin  | 271372627 | a n i m a |
| French | 84--26-   | a - - m - |

## Appendix 3 - Character File

---

|                  |                  |                   |
|------------------|------------------|-------------------|
| Spanish          | 2732-2627        | a l - m a         |
| Italian          | 2732-2627        | a l - m a         |
| PortugueseBrazil | 278-2629         | a w - m e         |
| Portuguese       | 2732-2629        | a l - m e         |
| Catalan          |                  |                   |
| Walloon          | 73--26-          | ɔ: - - m -        |
| Friulian         | 27137260         | a n i m e         |
| Romanian         | 7137264          | i n i m ə         |
| [ Liver ]        |                  |                   |
| Latin            | 24-375153201526  | f - i: k a: t u m |
| French           | 24884-----       | f w a - - - -     |
| Spanish          | --78527506-      | - - i y a ð o -   |
| Italian          | 24-0127206-      | f - e g a t o -   |
| PortugueseBrazil | 24-71292315-     | f - i g e d u -   |
| Portuguese       | 24-785295015-    | f - i y e ð u -   |
| Catalan          | 24-0104---       | f - e dʒ ə - - -  |
| Walloon          | 24-72--20--      | f - ø: - - t - -  |
| Friulian         | 24-7125320--     | f - i j a: t - -  |
| Romanian         | 24-7512720--     | f - i k a t - -   |
| [ Sun ]          |                  |                   |
| Latin            | 14232026         | s o: l e m        |
| French           |                  |                   |
| Spanish          | 14632--          | s o l - -         |
| Italian          | 146320-          | s o l e -         |
| PortugueseBrazil | 1498--           | s ɔ w - -         |
| Portuguese       | 14968--          | s ɔ ł - -         |
| Catalan          | 14932--          | s ɔ l - -         |
| Walloon          | 149329-          | s ɔ l ɔ -         |
| Friulian         |                  |                   |
| Romanian         | 1439280-         | s ɔ a r e -       |
| [ Sun ]          |                  |                   |
| Latin            | 1463275115321514 | s o l i k u l u s |
| French           | 1493286-----     | s ɔ l ɛ j - - - - |
| Spanish          |                  |                   |
| Italian          |                  |                   |
| PortugueseBrazil |                  |                   |
| Portuguese       |                  |                   |
| Catalan          |                  |                   |
| Walloon          |                  |                   |
| Friulian         | 146330--327-     | s o r e - - l i - |
| Romanian         |                  |                   |
| [ Moon ]         |                  |                   |
| Latin            | 32211327         | l u: n a          |
| French           | 322213-          | l y n -           |
| Spanish          | 32151327         | l u n a           |
| Italian          | 32151327         | l u n a           |
| PortugueseBrazil | 3215-29          | l u - e           |
| Portuguese       | 3215-29          | l u - e           |
| Catalan          | 3515134          | ʎ u n ə           |
| Walloon          | 327913-          | l ø n -           |
| Friulian         | 3215130          | l u n e           |
| Romanian         | 3215134          | l u n ə           |

## Appendix 3 - Character File

### [ Star ]

|                  |                |                  |
|------------------|----------------|------------------|
| Latin            | -1420-25323227 | - s t - e: l l a |
| French           | 0-20827-32-    | e - t w a - l -  |
| Spanish          | 01420280-527   | e s t r e - j a  |
| Italian          | -1420-0323227  | - s t - e l l a  |
| PortugueseBrazil | 71420280-3229  | i s t r e - l v  |
| Portuguese       | 471620280-3229 | i f t r e - l v  |
| Catalan          | 41420-31-32-   | ə s t - ε - l -  |
| Walloon          | -1420-72-32-   | - s t - ø: - l - |
| Friulian         | -1420-31-320   | - s t - ε - l e  |
| Romanian         | -1420-80---    | - s t - ɛa - -   |

### [ Water ]

|                  |           |                        |
|------------------|-----------|------------------------|
| Latin            | 27-87-27  | a - k <sup>w</sup> - a |
| French           | 6----     | o - - - -              |
| Spanish          | 27-85827  | a - ɣ w a              |
| Italian          | 275151827 | a k k w a              |
| PortugueseBrazil | 27-1829   | a - g w e              |
| Portuguese       | 27-1829   | a - g w e              |
| Catalan          | 56-8584   | aj - ɣ w ə             |
| Walloon          | 57--8-    | ɛ: - - w -             |
| Friulian         | 27-1-0    | a - g - e              |
| Romanian         | 27-48-4   | a - p - ə              |

### [ Rain ]

|                  |              |                |
|------------------|--------------|----------------|
| Latin            | 483215-8727  | p l u - w i a  |
| French           | 483269--7-   | p l ɥ - - i -  |
| Spanish          | 5-15-191227  | j - u - b j a  |
| Italian          | 481262310-27 | p j o d dʒ - a |
| PortugueseBrazil | 16-15-18-29  | f - u - v - e  |
| Portuguese       | 16-15-18-29  | f - u - v - e  |
| Catalan          | 483215-3-4   | p l u - ʒ - ə  |
| Walloon          | 483221-36--  | p l u: - ʁ - - |
| Friulian         | 48326--120   | p l o - - j e  |
| Romanian         | 483239--120  | p l ɔa - - j e |

### [ River ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            | 24322126013 | f l u: m e n |
| French           |             |              |
| Spanish          |             |              |
| Italian          | 241215260-  | f j u m e -  |
| PortugueseBrazil | 243215267-  | f l u m i -  |
| Portuguese       | 2432152647- | f l u m i -  |
| Catalan          |             |              |
| Walloon          |             |              |
| Friulian         | 24321526--  | f l u m - -  |
| Romanian         |             |              |

### [ River ]

|                  |           |            |
|------------------|-----------|------------|
| Latin            | 333781514 | r i: w u s |
| French           | 3622---   | ʁ y - - -  |
| Spanish          | 337-6-    | r i - o -  |
| Italian          | 337-6-    | r i - o -  |
| PortugueseBrazil | 367-8-    | ʁ i - w -  |
| Portuguese       | 367-15-   | ʁ i - u -  |

## Appendix 3 - Character File

|                  |                |                   |
|------------------|----------------|-------------------|
| Catalan          | 337-8-         | r i - w -         |
| Walloon          |                |                   |
| Friulian         |                |                   |
| Romanian         | 3347-8-        | r i - w -         |
| [ River ]        |                |                   |
| Latin            | 333748-5333727 | r i: p - a: r i a |
| French           | 3671812036--   | ʁ i v j e ʁ - -   |
| Spanish          |                |                   |
| Italian          |                |                   |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          |                |                   |
| Walloon          | 3371837-36--   | r i v i: - ʁ - -  |
| Friulian         |                |                   |
| Romanian         |                |                   |
| [ Lake ]         |                |                   |
| Latin            | 3227511526     | l a k u m         |
| French           | 322751--       | l a k - -         |
| Spanish          | 322716-        | l a g o -         |
| Italian          | 322716-        | l a g o -         |
| PortugueseBrazil | 3227115-       | l a g u -         |
| Portuguese       | 32278515-      | l a y u -         |
| Catalan          | 352751--       | l a k - -         |
| Walloon          | 322751--       | l a k - -         |
| Friulian         | 325320--       | l a: t - -        |
| Romanian         | 322751--       | l a k - -         |
| [ Sea ]          |                |                   |
| Latin            | 2627330        | m a r e           |
| French           | 263136-        | m ɛ ʁ -           |
| Spanish          | 262728-        | m a r -           |
| Italian          | 2627330        | m a r e           |
| PortugueseBrazil | 262736-        | m a ʁ -           |
| Portuguese       | 262728-        | m a r -           |
| Catalan          | 262733-        | m a r -           |
| Walloon          | 26036-         | m e ʁ -           |
| Friulian         | 265333-        | m a: r -          |
| Romanian         | 2627330        | m a r e           |
| [ Salt ]         |                |                   |
| Latin            | 145332026      | s a: l e m        |
| French           | 143132--       | s ɛ l - -         |
| Spanish          | 142732--       | s a l - -         |
| Italian          | 1427320-       | s a l e -         |
| PortugueseBrazil | 14278--        | s a w - -         |
| Portuguese       | 142732--       | s a l - -         |
| Catalan          | 142732--       | s a l - -         |
| Walloon          | 140---         | s e - - -         |
| Friulian         | 145332--       | s a: l - -        |
| Romanian         | 1427330-       | s a r e -         |
| [ Stone ]        |                |                   |
| Latin            | 142751141526   | s a k s u m       |
| French           |                |                   |



## Appendix 3 - Character File

|                  |                |                |
|------------------|----------------|----------------|
| Spanish          |                |                |
| Italian          | 142714146-     | s a s s o -    |
| PortugueseBrazil | 1459-1615-     | s ej - ř u -   |
| Portuguese       | 1460-1615-     | s ej - ř u -   |
| Catalan          |                |                |
| Walloon          |                |                |
| Friulian         |                |                |
| Romanian         |                |                |
| [ Stone ]        |                |                |
| Latin            | 48-0203327     | p - e t r a    |
| French           | 48120-36-      | p j e - x -    |
| Spanish          | 48120502827    | p j e ð r a    |
| Italian          | 481225203327   | p j e: t r a   |
| PortugueseBrazil | 48-0232829     | p - e d r e    |
| Portuguese       | 48-31502829    | p - e ð r e    |
| Catalan          | 48-050284      | p - e ð r ə    |
| Walloon          | 48-37-36-      | p - i: - x -   |
| Friulian         | 481225-330     | p j e: - r e   |
| Romanian         | 48122720284    | p j a t r ə    |
| [ Stone ]        |                |                |
| Latin            | 322748723026   | l a p i d e m  |
| French           |                |                |
| Spanish          | 322715-230-    | l a u - d e -  |
| Italian          | 3227487230-    | l a p i d e -  |
| PortugueseBrazil |                |                |
| Portuguese       |                |                |
| Catalan          |                |                |
| Walloon          |                |                |
| Friulian         |                |                |
| Romanian         |                |                |
| [ Sand ]         |                |                |
| Latin            | 402733251384   | h a r e: n a   |
| French           |                |                |
| Spanish          | -272801327     | - a r e n a    |
| Italian          |                |                |
| PortugueseBrazil | -272859-29     | - a r ej - e   |
| Portuguese       | -292860-29     | - e r ej - e   |
| Catalan          | -4280134       | - ə r e n ə    |
| Walloon          |                |                |
| Friulian         |                |                |
| Romanian         | -27337134      | - a r i n ə    |
| [ Sand ]         |                |                |
| Latin            | 14271915321526 | s a b u l u m  |
| French           | 142719-32--    | s a b - l - -  |
| Spanish          |                |                |
| Italian          |                |                |
| PortugueseBrazil | 145667-2815-   | s aj β - r u - |
| Portuguese       | 145667-2815-   | s aj β - r u - |
| Catalan          | 146334---      | s o r ə - - -  |
| Walloon          | 142181261--    | s o: v j ð - - |
| Friulian         | 1427182732913  | s a v a l ɔ n  |
| Romanian         |                |                |

## Appendix 3 - Character File

---

### [ Sand ]

|                  |               |               |
|------------------|---------------|---------------|
| Latin            | 1427-19153227 | s a - b u l a |
| French           |               |               |
| Spanish          |               |               |
| Italian          | 14271919-1227 | s a b b - j a |
| PortugueseBrazil |               |               |
| Portuguese       |               |               |
| Catalan          |               |               |
| Walloon          |               |               |
| Friulian         |               |               |
| Romanian         |               |               |

### [ Dust ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 4815328033026 | p u l w e r e m |
| French           | 48152336----  | p u d ɣ - - - - |
| Spanish          |               |                 |
| Italian          | 48632180330-  | p o l v e r e - |
| PortugueseBrazil |               |                 |
| Portuguese       |               |                 |
| Catalan          |               |                 |
| Walloon          |               |                 |
| Friulian         | 48932182733-- | p ɔ l v a r - - |
| Romanian         | 481532190330- | p u l b e r e - |

### [ Dust ]

|                  |             |             |
|------------------|-------------|-------------|
| Latin            | 48153281514 | p u l w u s |
| French           |             |             |
| Spanish          | 48632196-   | p o l b o - |
| Italian          |             |             |
| PortugueseBrazil | 489----     | p ɔ - - - - |
| Portuguese       | 489----     | p ɔ - - - - |
| Catalan          | 4863214--   | p o l s - - |
| Walloon          |             |             |
| Friulian         |             |             |
| Romanian         |             |             |

### [ Earth ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            | 20-0333327  | t - e r r a  |
| French           | 20-0-36-    | t - e - ɣ -  |
| Spanish          | 20120-3327  | t j e - r a  |
| Italian          | 20-31333327 | t - ε r r a  |
| PortugueseBrazil | 20-0-3629   | t - e - ɣ ɐ  |
| Portuguese       | 20-31-3629  | t - ε - ɣ ɐ  |
| Catalan          | 20-31-334   | t - ε - r ə  |
| Walloon          | 20-57-36-   | t - ε: - ɣ - |
| Friulian         | 201231-330  | t j ε - r e  |
| Romanian         | 52-27-334   | ts - a - r ə |

### [ Cloud ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | 1321192514 | n u: b e: s |
| French           | 1322---    | n y - - -   |
| Spanish          | 1315190-   | n u b e -   |
| Italian          | 1315190-   | n u b e -   |
| PortugueseBrazil | 13151841-  | n u v êj -  |
| Portuguese       | 13151854-  | n u v ẽj -  |

## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ Cloud ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | 1321197321514  | n u : b i l u s |
| French           |                |                 |
| Spanish          | 131519-326-    | n u b - l o -   |
| Italian          | 13151863227-   | n u v o l a -   |
| PortugueseBrazil | 13151932272315 | n u b l a d u   |
| Portuguese       | 13151932272315 | n u b l a d u   |
| Catalan          | 1315671568--   | n u ß u ł - -   |
| Walloon          |                |                 |
| Friulian         | 1321--32--     | n u : - - l - - |
| Romanian         | 136--33--      | n o - - r - -   |

### [ Fog ]

|                  |                 |                       |
|------------------|-----------------|-----------------------|
| Latin            | 515332371713026 | k a : l i : g i n e m |
| French           |                 |                       |
| Spanish          | 5127327--1327-  | k a l i - - n a -     |
| Italian          | 5127327107130-  | k a l i ġ i n e -     |
| PortugueseBrazil | 5127327341---   | k a l i ʒ ēj - - -    |
| Portuguese       | 5129327354---   | k ə l i ʒ ēj - - -    |
| Catalan          |                 |                       |
| Walloon          |                 |                       |
| Friulian         |                 |                       |
| Romanian         |                 |                       |

### [ Fog ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 13-0-19153227 | n - e - b u l a |
| French           | 13129---3222  | n j ɔ - - - l y |
| Spanish          | 13120-19-3227 | n j e - b - l a |
| Italian          | 13-01919-1227 | n - e b b - j a |
| PortugueseBrazil | 13-31-188-29  | n - ε - v w - ɐ |
| Portuguese       | 13-31-188-29  | n - ε - v w - ɐ |
| Catalan          | 13-0--8324    | n - e - - w l ə |
| Walloon          |               |                 |
| Friulian         |               |                 |
| Romanian         | 130115334--   | n e g u r ə - - |

### [ Fog ]

|                  |               |                   |
|------------------|---------------|-------------------|
| Latin            | 2001325193356 | t e n e : b r a j |
| French           |               |                   |
| Spanish          |               |                   |
| Italian          | 205713019330  | t ɛ : n e b r e   |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          |               |                   |
| Walloon          |               |                   |
| Friulian         |               |                   |
| Romanian         |               |                   |

### [ Fog ]

|        |                   |                         |
|--------|-------------------|-------------------------|
| Latin  | 20-013-2519335314 | t - e n - e : b r a : s |
| French | 20-013-311936--   | t - e n - ε b ʁ - -     |

## Appendix 3 - Character File

|                  |                   |                       |
|------------------|-------------------|-----------------------|
| Spanish          | 20-71312019322714 | t - i n j e b l a s   |
| Italian          | 20-5713-019330-   | t - ɛ : n - e b r e - |
| PortugueseBrazil |                   |                       |
| Portuguese       | 2028---3118-2916  | t r - - - ɛ v - ɐ ʃ   |
| Catalan          | 20-413-01928414   | t - ə n - e b r ə s   |
| Walloon          |                   |                       |
| Friulian         |                   |                       |
| Romanian         |                   |                       |

### [ Fog ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 242126532027 | f u : m a : t a |
| French           | 2422260--    | f y m e - -     |
| Spanish          | 241526272027 | f u m a t a     |
| Italian          | 241526532027 | f u m a : t a   |
| PortugueseBrazil | 241526271429 | f u m a s ɐ     |
| Portuguese       | 241526271429 | f u m a s ɐ     |
| Catalan          |              |                 |
| Walloon          |              |                 |
| Friulian         | 24152627200  | f u m a t e     |
| Romanian         |              |                 |

### [ Fog ]

|                  |           |               |
|------------------|-----------|---------------|
| Latin            | 515651727 | k a j k i a   |
| French           |           |               |
| Spanish          |           |               |
| Italian          |           |               |
| PortugueseBrazil |           |               |
| Portuguese       |           |               |
| Catalan          |           |               |
| Walloon          |           |               |
| Friulian         |           |               |
| Romanian         | 468046-4  | tʃ ɛ a tʃ - ə |

### [ Sky ]

|                  |             |                |
|------------------|-------------|----------------|
| Latin            | 51-56321526 | k - a j l u m  |
| French           | 14123132--  | s j ɛ l - -    |
| Spanish          | 58120326-   | θ j e l o -    |
| Italian          | 46-31326-   | tʃ - ɛ l o -   |
| PortugueseBrazil | 14-318--    | s - ɛ w - -    |
| Portuguese       | 14-318--    | s - ɛ w - -    |
| Catalan          | 14-3132--   | s - ɛ l - -    |
| Walloon          | 14-3736--   | s - i : ʁ - -  |
| Friulian         | 46-3732--   | tʃ - i : l - - |
| Romanian         | 46-028--    | tʃ - e r - -   |

### [ Wind ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 8-013201526 | w - e n t u m |
| French           | 18-43----   | v - ã - - - - |
| Spanish          | 1912013206- | b j e n t o - |
| Italian          | 18-3113206- | v - ɛ n t o - |
| PortugueseBrazil | 18-64-2015- | v - ẽ - t u - |
| Portuguese       | 18-64-2015- | v - ẽ - t u - |
| Catalan          | 19-013---   | b - e n - - - |
| Walloon          | 18-64----   | v - ẽ - - - - |
| Friulian         | 18-71320--  | v - i n t - - |
| Romanian         | 18-471320-- | v - i n t - - |

## Appendix 3 - Character File

### [ Snow ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 13-78026   | n - i w e m  |
| French           |            |              |
| Spanish          | 13120190-  | n j e b e -  |
| Italian          | 13-0180-   | n - e v e -  |
| PortugueseBrazil | 13-31187-  | n - ε v i -  |
| Portuguese       | 13-311847- | n - ε v i -  |
| Catalan          | 13-08--    | n - e w - -  |
| Walloon          | 133724---  | n i: f - - - |
| Friulian         | 13-2524--  | n - e: f - - |
| Romanian         | 13-80---   | n - ɣa - -   |

### [ Ice ]

|                  |         |          |
|------------------|---------|----------|
| Latin            | 103221  | g e l u: |
| French           | 33132-  | ʒ ε l -  |
| Spanish          | 50326   | j e l o  |
| Italian          | 1031326 | ɕ ε l o  |
| PortugueseBrazil |         |          |
| Portuguese       |         |          |
| Catalan          | 33168-  | ʒ ε ʎ -  |
| Walloon          |         |          |
| Friulian         |         |          |
| Romanian         | 10033-  | ɕ e r -  |

### [ Ice ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            |             |               |
| French           | 13227-14-   | g l a - s -   |
| Spanish          |             |               |
| Italian          | 11227204627 | g j a t ʎ a   |
| PortugueseBrazil |             |               |
| Portuguese       |             |               |
| Catalan          | 13227-14-   | g l a - s -   |
| Walloon          | 13231-14-   | g l ε - s -   |
| Friulian         | 13227-460   | g l a - ʎ e   |
| Romanian         | 1-80-524    | g - ɣa - ts ə |

### [ Smoke ]

|                  |            |            |
|------------------|------------|------------|
| Latin            | 2421261514 | f u: m u s |
| French           |            |            |
| Spanish          | -15266-    | - u m o -  |
| Italian          | 2415266-   | f u m o -  |
| PortugueseBrazil | 24152615-  | f u m u -  |
| Portuguese       | 24152615-  | f u m u -  |
| Catalan          | 241526--   | f u m - -  |
| Walloon          |            |            |
| Friulian         | 241526--   | f u m - -  |
| Romanian         | 241526--   | f u m - -  |

### [ Fire ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | 24-6511526 | f - o k u m |
| French           | 24-79---   | f - ø - - - |
| Spanish          | 248016-    | f w e g o - |
| Italian          | 2489516-   | f w ɔ k o - |
| PortugueseBrazil | 24-6115-   | f - o g u - |
| Portuguese       | 24-68515-  | f - o y u - |

## Appendix 3 - Character File

|                  |                  |                  |
|------------------|------------------|------------------|
| Catalan          | 24-951--         | f - ɔ k - -      |
| Walloon          | 24-72---         | f - ø: - - -     |
| Friulian         | 24-2151--        | f - u: k - -     |
| Romanian         | 24-651--         | f - o k - -      |
| [ Ash ]          |                  |                  |
| Latin            | 517130-33026     | k i n e - r e m  |
| French           | 1443--2336--     | s ā - - d ʁ - -  |
| Spanish          |                  |                  |
| Italian          | 460130-330-      | ʃ e n e - r e -  |
| PortugueseBrazil |                  |                  |
| Portuguese       |                  |                  |
| Catalan          | 143113-23334-    | s ε n - d r ə -  |
| Walloon          | 1488--23---      | s ē: - - d - - - |
| Friulian         |                  |                  |
| Romanian         |                  |                  |
| [ Ash ]          |                  |                  |
| Latin            |                  |                  |
| French           |                  |                  |
| Spanish          | 5801375827-      | θ e n i θ a -    |
| Italian          |                  |                  |
| PortugueseBrazil | 1444--492916     | s ĩ - - z ɐ ʃ    |
| Portuguese       | 1444--492916     | s ĩ - - z ɐ ʃ    |
| Catalan          |                  |                  |
| Walloon          |                  |                  |
| Friulian         | 4671374931-      | ʃ i n i z ε -    |
| Romanian         | 4601315164-      | ʃ e n u ʃ ə -    |
| [ Road ]         |                  |                  |
| Latin            | 8727             | w i a            |
| French           | 18827            | v w a            |
| Spanish          | 19727            | b i a            |
| Italian          | 18727            | v i a            |
| PortugueseBrazil | 18729            | v i ɐ            |
| Portuguese       | 18729            | v i ɐ            |
| Catalan          | 1974             | b i ə            |
| Walloon          |                  |                  |
| Friulian         |                  |                  |
| Romanian         |                  |                  |
| [ Road ]         |                  |                  |
| Latin            | -142033532027    | - s t r a: t a   |
| French           |                  |                  |
| Spanish          | 0142028272327    | e s t r a d a    |
| Italian          | -142033272327    | - s t r a d a    |
| PortugueseBrazil | 7142028272329    | i s t r a d ɐ    |
| Portuguese       | 7162028275029    | i ʃ t r a ð ɐ    |
| Catalan          |                  |                  |
| Walloon          |                  |                  |
| Friulian         |                  |                  |
| Romanian         |                  |                  |
| [ Road ]         |                  |                  |
| Latin            | 5127262637131526 | k a m m i: n u m |
| French           | 164-2662---      | ʃ ə - m ē - - -  |

## Appendix 3 - Character File

---

|                  |                |                 |
|------------------|----------------|-----------------|
| Spanish          | 5127-267136-   | k a - m i n o - |
| Italian          | 512726267136-  | k a m m i n o - |
| PortugueseBrazil | 5127-26443815- | k a - m i j u - |
| Portuguese       | 5129-2673815-  | k e - m i j u - |
| Catalan          | 514-267---     | k ə - m i - - - |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |

### [ Mountain ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            | 2661320026  | m o n t e m  |
| French           | 2642----    | m ɔ̃ - - - - |
| Spanish          | 26613200-   | m o n t e -  |
| Italian          | 26613200-   | m o n t e -  |
| PortugueseBrazil | 2661-467-   | m õ - ʃ i -  |
| Portuguese       | 2661-2047-  | m õ - t i -  |
| Catalan          | 261513---   | m u n - - -  |
| Walloon          |             |              |
| Friulian         | 2691320--   | m ɔ̃ n t - - |
| Romanian         | 2615132031- | m u n t ɛ -  |

### [ Mountain ]

|                  |                  |                     |
|------------------|------------------|---------------------|
| Latin            | 266132053-13027  | m o n t a : - n e a |
| French           | 2661-2027-38--   | m ɔ̃ - t a - j - -  |
| Spanish          | 266132027-38-27  | m o n t a - j - a   |
| Italian          | 2661320273838-27 | m o n t a j j - a   |
| PortugueseBrazil | 2661-2045-38-29  | m õ - t ẽ - j - e   |
| Portuguese       | 2661-2029-38-29  | m õ - t e - j - e   |
| Catalan          | 2615132027-38-4  | m u n t a - j - ə   |
| Walloon          | 2661-2027-38--   | m ɔ̃ - t a - j - -  |
| Friulian         | 269132027-380-   | m ɔ̃ n t a - j e -  |
| Romanian         |                  |                     |

### [ Night ]

|                  |             |                  |
|------------------|-------------|------------------|
| Latin            | 13-66520026 | n - o c t e m    |
| French           | 13697----   | n ɥ i - - - -    |
| Spanish          | 13-6-460-   | n - o - ʃ e -    |
| Italian          | 13-920200-  | n - ɔ̃ t t e -   |
| PortugueseBrazil | 13-172047-- | n - o j t i - -  |
| Portuguese       | 13-172047-- | n - o j t i - -  |
| Catalan          | 13-7-20--   | n - i - t - -    |
| Walloon          | 13-22-20--  | n - y - t - -    |
| Friulian         | 38-9-20--   | j - ɔ̃ - t - -   |
| Romanian         | 13-3948200- | n - ɔ̃ a p t e - |

### [ Day ]

|                  |         |           |
|------------------|---------|-----------|
| Latin            | 2372514 | d i e : s |
| French           |         |           |
| Spanish          | 23727-  | d i a -   |
| Italian          | 237--   | d i - -   |
| PortugueseBrazil | 23729-  | d i e -   |
| Portuguese       | 23729-  | d i e -   |
| Catalan          | 2374-   | d i ə -   |
| Walloon          | 1021--  | d̥ɥ : - - |
| Friulian         | 237--   | d i - -   |
| Romanian         | 497--   | z i - -   |



## Appendix 3 - Character File

---

### [ Day ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 2371533131526 | d i u r n u m   |
| French           | 3-1536---     | ʒ - u ʁ - - -   |
| Spanish          | 23121528136-  | d j u r n o -   |
| Italian          | 10-633136-    | dʒ - o r n o -  |
| PortugueseBrazil |               |                 |
| Portuguese       |               |                 |
| Catalan          | 3-62813--     | ʒ - o r n - -   |
| Walloon          | 10-21----     | dʒ - u: - - - - |
| Friulian         |               |                 |
| Romanian         |               |                 |

### [ Day ]

|                  |          |           |
|------------------|----------|-----------|
| Latin            |          |           |
| French           |          |           |
| Spanish          |          |           |
| Italian          |          |           |
| PortugueseBrazil | 39361327 | ʒ ɔ ʁ n a |
| Portuguese       | 39361327 | ʒ ɔ ʁ n a |
| Catalan          |          |           |
| Walloon          |          |           |
| Friulian         |          |           |
| Romanian         |          |           |

### [ Day ]

|                  |                 |                  |
|------------------|-----------------|------------------|
| Latin            | 237153313532027 | d i u r n a: t a |
| French           | 3-1536130--     | ʒ - u ʁ n e - -  |
| Spanish          | 34-62813272327  | x - o r n a d a  |
| Italian          | 1063313272027-  | dʒ o r n a t a - |
| PortugueseBrazil |                 |                  |
| Portuguese       |                 |                  |
| Catalan          |                 |                  |
| Walloon          |                 |                  |
| Friulian         | 71-6331327230   | dʒ - o r n a d e |
| Romanian         |                 |                  |

### [ Year ]

|                  |            |            |
|------------------|------------|------------|
| Latin            | 2713131526 | a n n u m  |
| French           | 43----     | ɑ̃ - - - - |
| Spanish          | 27-386-    | a - ɲ o -  |
| Italian          | 2713136-   | a n n o -  |
| PortugueseBrazil | 29-1315-   | ɐ - n u -  |
| Portuguese       | 29-1315-   | ɐ - n u -  |
| Catalan          | 27-38--    | a - ɲ - -  |
| Walloon          | 43----     | ɑ̃ - - - - |
| Friulian         | 27-75--    | a - ŋ - -  |
| Romanian         | 2713---    | a n - - -  |

### [ Name ]

|                  |          |            |
|------------------|----------|------------|
| Latin            | 13226013 | n o: m e n |
| French           | 1342---  | n ɔ̃ - - - |
| Spanish          |          |            |
| Italian          | 132260-  | n o: m e - |
| PortugueseBrazil | 136267-  | n o m i -  |
| Portuguese       | 1362647- | n o m i -  |

## Appendix 3 - Character File

|                  |                   |                          |
|------------------|-------------------|--------------------------|
| Catalan          | 13926--           | n ɔ m - -                |
| Walloon          | 1361---           | n õ - - -                |
| Friulian         | 13975--           | n ɔ ŋ - -                |
| Romanian         | 1315260-          | n u m e -                |
| [ Name ]         |                   |                          |
| Latin            | 13226713-026      | n o: m i n - e m         |
| French           |                   |                          |
| Spanish          | 13626-19280-      | n o m - b r e -          |
| Italian          |                   |                          |
| PortugueseBrazil |                   |                          |
| Portuguese       |                   |                          |
| Catalan          |                   |                          |
| Walloon          |                   |                          |
| Friulian         |                   |                          |
| Romanian         |                   |                          |
| [ Tongue ]       |                   |                          |
| Latin            | 3271374-27        | l i n g <sup>w</sup> - a |
| French           | 3243-1--          | l ã - g - -              |
| Spanish          | 320751827         | l e ŋ g w a              |
| Italian          | 327131827         | l i n g w a              |
| PortugueseBrazil | 3244-1829         | l ï - g w e              |
| Portuguese       | 3244-1829         | l ï - g w e              |
| Catalan          |                   |                          |
| Walloon          | 3289----          | l ěu- - - -              |
| Friulian         | 3231131-31        | l ε n g - ε              |
| Romanian         | 3272619-4         | l i m b - ə              |
| [ ToDrink ]      |                   |                          |
| Latin            | 19-7190330        | b - i b e r e            |
| French           | 19884--36-        | b w a - - ʁ -            |
| Spanish          | 19-019028-        | b - e b e r -            |
| Italian          | 19-0--280         | b - e - - r e            |
| PortugueseBrazil | 19-019036-        | b - e b e ʁ -            |
| Portuguese       | 19-4767028-       | b - i β e r -            |
| Catalan          | 19-318-284        | b - ε w - r ə            |
| Walloon          | 1972--36--        | b ø: - - ʁ - -           |
| Friulian         | 19-0187--         | b - e v i - -            |
| Romanian         | 19-80----         | b - ɛa- - - -            |
| [ ToEat ]        |                   |                          |
| Latin            | 516260230330      | k o m e d e r e          |
| French           |                   |                          |
| Spanish          | 516260--28-       | k o m e - - r -          |
| Italian          |                   |                          |
| PortugueseBrazil | 516260----        | k o m e - - - -          |
| Portuguese       | 511526--028-      | k u m - - e r -          |
| Catalan          |                   |                          |
| Walloon          |                   |                          |
| Friulian         |                   |                          |
| Romanian         |                   |                          |
| [ ToEat ]        |                   |                          |
| Latin            | 26271323155153330 | m a n d u k a: r e       |
| French           | 2643-3--0--       | m ã - ʒ - - e - -        |

## Appendix 3 - Character File

|                  |                   |                    |
|------------------|-------------------|--------------------|
| Spanish          | 2627132315512728- | m a n d u k a r -  |
| Italian          | 26271310--27280   | m a n ɕ - - a r e  |
| PortugueseBrazil | 2645-3--2736-     | m ẽ - ʒ - - a ʁ -  |
| Portuguese       | 2645-3--2728-     | m ẽ - ʒ - - a r -  |
| Catalan          | 264383--27--      | m ə ɲ ʒ - - a - -  |
| Walloon          | 262738---37--     | m a ɲ - - - i: - - |
| Friulian         | 26277583--53--    | m a ŋ ʝ - - a: - - |
| Romanian         | 264713--5127--    | m i n - - k a - -  |
| [ ToBite ]       |                   |                    |
| Latin            | 26-6332325330     | m - o r d e r e    |
| French           | 26-63623-36-      | m - o ʁ d - ʁ -    |
| Spanish          | 26-62850028-      | m - o r ð e r -    |
| Italian          | 26-933230330      | m - ɔ r d e r e    |
| PortugueseBrazil | 26-63623036-      | m - o ʁ d e ʁ -    |
| Portuguese       | 26-152850028-     | m - u r ð e r -    |
| Catalan          |                   |                    |
| Walloon          |                   |                    |
| Friulian         | 2682733237--      | m w a r d i - -    |
| Romanian         |                   |                    |
| [ ToBite ]       |                   |                    |
| Latin            | 266331475153330   | m o r s i k a: r e |
| French           |                   |                    |
| Spanish          | 266-14-512728-    | m o - s - k a r -  |
| Italian          | 266331475127280   | m o r s i k a r e  |
| PortugueseBrazil | 2615-144127--     | m u - s ə g a - -  |
| Portuguese       | 2615-14412733-    | m u - s ə g a r -  |
| Catalan          | 2615-1448527--    | m u - s ə ɣ a - -  |
| Walloon          |                   |                    |
| Friulian         |                   |                    |
| Romanian         | 2615331405127--   | m u r s e k a - -  |
| [ ToSuck ]       |                   |                    |
| Latin            | 142110330         | s u: g e r e       |
| French           | 1422140--         | s y s e - -        |
| Spanish          |                   |                    |
| Italian          |                   |                    |
| PortugueseBrazil | 141512736-        | s u g a ʁ -        |
| Portuguese       | 141512728-        | s u g a r -        |
| Catalan          |                   |                    |
| Walloon          | 14221437--        | s y s i: - -       |
| Friulian         | 65156553--        | c u c a: - -       |
| Romanian         | 1415100--         | s u ɕ e - -        |
| [ ToSpit ]       |                   |                    |
| Latin            | 516131448150330   | k o n s p u e r e  |
| French           | 5142-1448220--    | k ɔ̃ - s p y e - - |
| Spanish          |                   |                    |
| Italian          |                   |                    |
| PortugueseBrazil | 5115-1448736--    | k u - s p i ʁ - -  |
| Portuguese       | 5115-1648728--    | k u - ʃ p i r - -  |
| Catalan          |                   |                    |
| Walloon          |                   |                    |
| Friulian         |                   |                    |
| Romanian         |                   |                    |

## Appendix 3 - Character File

---

### [ ToSpit ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            |                |                 |
| French           |                |                 |
| Spanish          | 0145115-48728  | e s k u - p i r |
| Italian          |                |                 |
| PortugueseBrazil |                |                 |
| Portuguese       |                |                 |
| Catalan          | 4145115-487-   | ə s k u - p i - |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         | -145115124827- | - s k u j p a - |

### [ ToSpit ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | -144815200330  | - s p u t e r e |
| French           |                |                 |
| Spanish          | 0144815202728- | e s p u t a r - |
| Italian          | -1448152027280 | - s p u t a r e |
| PortugueseBrazil |                |                 |
| Portuguese       |                |                 |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         | -1448152353--  | - s p u d a - - |
| Romanian         |                |                 |

### [ ToVomit ]

|                  |           |              |
|------------------|-----------|--------------|
| Latin            | 86260330  | w o m e r e  |
| French           | 18626736- | v o m i ɣ -  |
| Spanish          |           |              |
| Italian          | 189260330 | v ɔ m e r e  |
| PortugueseBrazil |           |              |
| Portuguese       |           |              |
| Catalan          |           |              |
| Walloon          | 182267--  | v o: m i - - |
| Friulian         |           |              |
| Romanian         | 1839260-- | v ɔ m e - -  |

### [ ToBlow ]

|                  |                 |                  |
|------------------|-----------------|------------------|
| Latin            | 141524243253330 | s u f f l a: r e |
| French           | 1415-24320--    | s u - f l e - -  |
| Spanish          |                 |                  |
| Italian          | 14624241227330  | s o f f j a r e  |
| PortugueseBrazil |                 |                  |
| Portuguese       |                 |                  |
| Catalan          |                 |                  |
| Walloon          | 1415-24320--    | s u - f l e - -  |
| Friulian         | 146-243253--    | s o - f l a: - - |
| Romanian         | 1415-243227--   | s u - f l a - -  |

### [ ToBreathe ]

|                  |                  |                     |
|------------------|------------------|---------------------|
| Latin            | 3301448373353330 | r e s p i: r a: r e |
| French           |                  |                     |
| Spanish          | 33014487282728-  | r e s p i r a r -   |
| Italian          | 330144873327280  | r e s p i r a r e   |
| PortugueseBrazil | 36014487282728-  | ɣ e s p i r a r -   |
| Portuguese       | 364716487282728- | ɣ i f p i r a r -   |

## Appendix 3 - Character File

|                  |                |                    |
|------------------|----------------|--------------------|
| Catalan          | 334144872827-- | r ə s p i r a - -  |
| Walloon          |                |                    |
| Friulian         | 330144873353-- | r e s p i r a: - - |
| Romanian         |                |                    |
| [ ToLaugh ]      |                |                    |
| Latin            | 3337-2325330   | r i: - d e: r e    |
| French           | 367---36-      | ʁ i - - - ʁ -      |
| Spanish          | 330--728-      | r e - - i r -      |
| Italian          | 3337-230280    | r i: - d e r e     |
| PortugueseBrazil | 367---36-      | ʁ i - - - ʁ -      |
| Portuguese       | 367---28-      | ʁ i - - - r -      |
| Catalan          | 3378--284      | r i w - - r ə      |
| Walloon          | 3637---36-     | ʁ i: - - - ʁ -     |
| Friulian         | 337-237--      | r i - d i - -      |
| Romanian         | 2847-230--     | r i - d e - -      |
| [ ToSee ]        |                |                    |
| Latin            | 8-72325330     | w - i d e: r e     |
| French           | 18827--36-     | v w a - - ʁ -      |
| Spanish          | 19---028-      | b - - - e r -      |
| Italian          | 18-0230280     | v - e d e r e      |
| PortugueseBrazil | 18---036-      | v - - - e ʁ -      |
| Portuguese       | 18---028-      | v - - - e r -      |
| Catalan          | 19-318-284     | b - ɛ w - r ə      |
| Walloon          | 18-37--55-     | v - i: - - R -     |
| Friulian         | 18126237--     | v j o d i - -      |
| Romanian         | 18-02380--     | v - e d ɛ a - -    |
| [ ToHear ]       |                |                    |
| Latin            | 78-2337330     | aʊ - d i: r e      |
| French           | 8--736-        | w - - i ʁ -        |
| Spanish          | 6--728-        | o - - i r -        |
| Italian          | 15-237280      | u - d i r e        |
| PortugueseBrazil | 6818736-       | o w v i ʁ -        |
| Portuguese       | 6818728-       | o w v i r -        |
| Catalan          | 15--7--        | u - - i - -        |
| Walloon          | 61--55--       | õ - - R - -        |
| Friulian         | 15322337--     | u l d i: - -       |
| Romanian         | 2715497--      | a u z i - -        |
| [ ToKnow ]       |                |                    |
| Latin            | 145137330      | s k i: r e         |
| French           |                |                    |
| Spanish          |                |                    |
| Italian          |                |                    |
| PortugueseBrazil |                |                    |
| Portuguese       |                |                    |
| Catalan          |                |                    |
| Walloon          |                |                    |
| Friulian         |                |                    |
| Romanian         | 16207--        | ʃ t i - -          |
| [ ToKnow ]       |                |                    |
| Latin            | 142748-0330    | s a p - e r e      |
| French           | 14271882736-   | s a v w a ʁ -      |

## Appendix 3 - Character File

|                  |                  |                       |
|------------------|------------------|-----------------------|
| Spanish          | 142719-028-      | s a b - e r -         |
| Italian          | 142748-0330      | s a p - e r e         |
| PortugueseBrazil | 142719-036-      | s a b - e ʁ -         |
| Portuguese       | 142919-028-      | s ɐ b - e r -         |
| Catalan          | 14467-31--       | s ə β - ε - -         |
| Walloon          | 142718-7255-     | s a v - ø: R -        |
| Friulian         | 142718-25--      | s a v - e: - -        |
| Romanian         |                  |                       |
| [ ToKnow ]       |                  |                       |
| Latin            | 516113214510330  | k o g n o: s k e r e  |
| French           | 519-1331-2036--  | k ɔ - n ε - t ʁ - -   |
| Spanish          | 516-13658028--   | k o - n o θ e r - -   |
| Italian          | 516-13616160330  | k o - n o f f e r e   |
| PortugueseBrazil | 516-38014-036-   | k o - n e s - e ʁ -   |
| Portuguese       | 5115-384714-028- | k u - n i s - e r -   |
| Catalan          | 5115-133116-4--  | k u - n ε f - ə - -   |
| Walloon          | 517-13940----    | k i - n ɔ h - - - -   |
| Friulian         | 516-38614-7--    | k o - n o s - i - -   |
| Romanian         | 5115-133916200-- | k u - n ɔ a f t e - - |
| [ ToThink ]      |                  |                       |
| Latin            | 51-2172053330    | k - o: g i t a: r e   |
| French           | 5169--7230--     | k ɥ - - i d e - -     |
| Spanish          | 518--7232728-    | k w - - i d a r -     |
| Italian          | 51-61072027330   | k - o dʒ i t a r e    |
| PortugueseBrazil | 51-1537202736-   | k - u ʒ i t a ʁ -     |
| Portuguese       | 51-1537202728-   | k - u ʒ i t a r -     |
| Catalan          | 51-15-122327--   | k - u - j d a - -     |
| Walloon          |                  |                       |
| Friulian         |                  |                       |
| Romanian         | 51-151002027--   | k - u dʒ e t a - -    |
| [ ToThink ]      |                  |                       |
| Latin            | 4825131453330    | p e: n s a: r e       |
| French           | 4843-140--       | p ā - s e - -         |
| Spanish          | 48013142728-     | p e n s a r -         |
| Italian          | 480131427280     | p e n s a r e         |
| PortugueseBrazil | 4864-142736-     | p ě - s a ʁ -         |
| Portuguese       | 4864-142728-     | p ě - s a r -         |
| Catalan          | 484131427--      | p ə n s a - -         |
| Walloon          | 4862-140--       | p ě - s e - -         |
| Friulian         | 480751453--      | p e ŋ s a: - -        |
| Romanian         | 484-1427--       | p ə - s a - -         |
| [ ToSmell ]      |                  |                       |
| Latin            | 140132037330     | s e n t i: r e        |
| French           | 1443-20736-      | s ā - t i ʁ -         |
| Spanish          | 1401320728-      | s e n t i r -         |
| Italian          | 14013207330      | s e n t i r e         |
| PortugueseBrazil | 1464-46736-      | s ě - ŋ i ʁ -         |
| Portuguese       | 1464-20728-      | s ě - t i r -         |
| Catalan          | 14413207--       | s ə n t i - -         |
| Walloon          | 1462-207--       | s ě - t i - -         |
| Friulian         | 147132037--      | s i n t i: - -        |
| Romanian         | 14726527--       | s i m t s i - -       |

## Appendix 3 - Character File

---

### [ ToSmell ]

|                  |            |           |
|------------------|------------|-----------|
| Latin            | 63225330   | o l e r e |
| French           |            |           |
| Spanish          | 632028-    | o l e r - |
| Italian          | 6327330    | o l i r e |
| PortugueseBrazil |            |           |
| Portuguese       |            |           |
| Catalan          | 1532152827 | u l u r a |
| Walloon          |            |           |
| Friulian         |            |           |
| Romanian         |            |           |

### [ ToSmell ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 62323353330 | o d o r a r e |
| French           |             |               |
| Spanish          |             |               |
| Italian          | 62363327330 | o d o r a r e |
| PortugueseBrazil |             |               |
| Portuguese       |             |               |
| Catalan          |             |               |
| Walloon          |             |               |
| Friulian         |             |               |
| Romanian         |             |               |

### [ ToSmell ]

|                  |                |                  |
|------------------|----------------|------------------|
| Latin            | 24335313353330 | f r a g r a r e  |
| French           | 243231-360--   | f l ε - ʁ e - -  |
| Spanish          |                |                  |
| Italian          | 24332713327330 | f r a g r a r e  |
| PortugueseBrazil | 16-59-282736-  | f - ej - r a ʁ - |
| Portuguese       | 16-60-282728-  | f - ej - r a r - |
| Catalan          | 24324122827--  | f l ə j r a - -  |
| Walloon          |                |                  |
| Friulian         |                |                  |
| Romanian         |                |                  |

### [ ToFear ]

|                  |            |             |
|------------------|------------|-------------|
| Latin            | 2072625330 | t i m e r e |
| French           |            |             |
| Spanish          | 20026028-  | t e m e r - |
| Italian          | 200260330  | t e m e r e |
| PortugueseBrazil | 20026036-  | t e m e ʁ - |
| Portuguese       | 204726028- | t i m e r - |
| Catalan          | 200264--   | t e m ə - - |
| Walloon          |            |             |
| Friulian         | 200267--   | t e m i - - |
| Romanian         | 200260--   | t e m e - - |

### [ ToFear ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 2033026-0330  | t r e m - e r e |
| French           | 513664-23-36- | k ʁ ě - d - ʁ - |
| Spanish          | 2028026-028-  | t r e m - e r - |
| Italian          | 2033026-27330 | t r e m - a r e |
| PortugueseBrazil | 2028026-036-  | t r e m - e ʁ - |
| Portuguese       | 20284726-028- | t r i m - e r - |



## Appendix 3 - Character File

|                  |               |                   |
|------------------|---------------|-------------------|
| Catalan          |               |                   |
| Walloon          |               |                   |
| Friulian         | 2033726-53--  | t r i m - a - -   |
| Romanian         |               |                   |
| [ ToSleep ]      |               |                   |
| Latin            | 23-6332637330 | d - o r m i : r e |
| French           | 23-93626736-  | d - ɔ ʁ m i ʁ -   |
| Spanish          | 23-62826728-  | d - o r m i r -   |
| Italian          | 23-633267330  | d - o r m i r e   |
| PortugueseBrazil | 23-63626736-  | d - o ʁ m i ʁ -   |
| Portuguese       | 23-152826728- | d - u r m i r -   |
| Catalan          | 23-1533267--  | d - u r m i - -   |
| Walloon          | 2382736267--  | d w a ʁ m i - -   |
| Friulian         | 23-15332637-- | d - u r m i : - - |
| Romanian         | 23-633267--   | d - o r m i - -   |
| [ ToLive ]       |               |                   |
| Latin            | 83780330      | w i : w e r e     |
| French           | 18718-36-     | v i v - ʁ -       |
| Spanish          | 19719728-     | b i b i r -       |
| Italian          | 187180330     | v i v e r e       |
| PortugueseBrazil | 18718036-     | v i v e ʁ -       |
| Portuguese       | 18718028-     | v i v e r -       |
| Catalan          | 1978-284      | b i w - r ə       |
| Walloon          |               |                   |
| Friulian         | 187187--      | v i v i - -       |
| Romanian         | 187-27--      | v i - a - -       |
| [ ToDie ]        |               |                   |
| Latin            |               |                   |
| French           | 261536736-    | m u ʁ i ʁ -       |
| Spanish          | 26628728-     | m o r i r -       |
| Italian          | 266337330     | m o r i r e       |
| PortugueseBrazil | 26636036-     | m o ʁ e ʁ -       |
| Portuguese       | 261536028-    | m u ʁ e r -       |
| Catalan          | 2615287--     | m u r i - -       |
| Walloon          | 269557--      | m ɔ r i - -       |
| Friulian         | 26153337--    | m u r i : - -     |
| Romanian         | 2615337--     | m u r i - -       |
| [ ToKill ]       |               |                   |
| Latin            | 13-05153330   | n - e k a : r e   |
| French           | 138560---     | n w a j e - - -   |
| Spanish          |               |                   |
| Italian          |               |                   |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          | 13-4127--     | n - ə g a - -     |
| Walloon          |               |                   |
| Friulian         |               |                   |
| Romanian         | 13-05127--    | n - e k a - -     |
| [ ToKill ]       |               |                   |
| Latin            |               |                   |
| French           |               |                   |

## Appendix 3 - Character File

---

|                  |               |                   |
|------------------|---------------|-------------------|
| Spanish          | 27-13012728-  | a - n e g a r -   |
| Italian          | 2713130127330 | a n n e g a r e   |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          |               |                   |
| Walloon          |               |                   |
| Friulian         |               |                   |
| Romanian         |               |                   |
| [ ToKill ]       |               |                   |
| Latin            | 2021-2053337  | t u : - t a : r i |
| French           | 20-69-0--     | t - u - e - -     |
| Spanish          |               |                   |
| Italian          |               |                   |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          |               |                   |
| Walloon          | 20158-0--     | t u w - e - -     |
| Friulian         |               |                   |
| Romanian         |               |                   |
| [ ToKill ]       |               |                   |
| Latin            | 2627512053330 | m a k t a : r e   |
| French           | 2627-200--    | m a - t e - -     |
| Spanish          | 2627-202728-  | m a - t a r -     |
| Italian          |               |                   |
| PortugueseBrazil | 2627-202736-  | m a - t a r -     |
| Portuguese       | 2629-202728-  | m e - t a r -     |
| Catalan          | 264-2027--    | m ə - t a - -     |
| Walloon          |               |                   |
| Friulian         | 262746-53--   | m a t f - a : - - |
| Romanian         |               |                   |
| [ ToKill ]       |               |                   |
| Latin            | 6515137230330 | o k k i : d e r e |
| French           | 951147--36-   | o k s i - - r -   |
| Spanish          |               |                   |
| Italian          | 1520467230280 | u t t f i d e r e |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          | 1551147----   | u k s i - - - -   |
| Walloon          |               |                   |
| Friulian         |               |                   |
| Romanian         | 15-467230--   | u - t f i d e - - |
| [ ToFight ]      |               |                   |
| Latin            | 481511353330  | p u g n a : r e   |
| French           |               |                   |
| Spanish          | 4815-382728-  | p u - p a r -     |
| Italian          | 4815383827330 | p u n p a r e     |
| PortugueseBrazil |               |                   |
| Portuguese       |               |                   |
| Catalan          | 4815-3827--   | p u - p a - -     |
| Walloon          |               |                   |
| Friulian         |               |                   |
| Romanian         |               |                   |

## Appendix 3 - Character File

---

### [ ToFight ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | 19272020150330 | b a t t u e r e |
| French           | 192720--36--   | b a t - - æ - - |
| Spanish          | 1927-20-728-   | b a - t - i r - |
| Italian          | 19272020-0330  | b a t t - e r e |
| PortugueseBrazil | 1927-20-036-   | b a - t - e æ - |
| Portuguese       | 1929-20-028-   | b ø - t - e r - |
| Catalan          | 1927-20--284   | b a - t - - r ə |
| Walloon          | 192720-0---    | b a t - e - - - |
| Friulian         | 192720-7---    | b a t - i - - - |
| Romanian         | 192720-0---    | b a t - e - - - |

### [ ToHunt ]

|                  |                |                     |
|------------------|----------------|---------------------|
| Latin            | 51274820753330 | k a p t i a : r e   |
| French           | 1627-14-0--    | f a - s - e - -     |
| Spanish          | 5127-58-2728-  | k a - θ - a r -     |
| Italian          | 51272046-27330 | k a t t f - a r e   |
| PortugueseBrazil | 5127-14-2736-  | k a - s - a æ -     |
| Portuguese       | 5129-14-2728-  | k ø - s - a r -     |
| Catalan          | 514-14-27--    | k ə - s - a - -     |
| Walloon          | 4631-14-37--   | t f ε - s - i : - - |
| Friulian         | 6527-46-53--   | c a - t f - a : - - |
| Romanian         |                |                     |

### [ ToHit ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 4815321453330 | p u l s a : r e |
| French           | 4815-140--    | p u - s e - -   |
| Spanish          | 4815-342728-  | p u - x a r -   |
| Italian          | 4815321427330 | p u l s a r e   |
| PortugueseBrazil | 4815-162736-  | p u - f a æ -   |
| Portuguese       | 4815-162728-  | p u - f a r -   |
| Catalan          |               |                 |
| Walloon          |               |                 |
| Friulian         | 4815321453--  | p u l s a : - - |
| Romanian         | 4815321427--  | p u l s a - - - |

### [ ToCut ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 14-05153330  | s - e k a : r e |
| French           | 14120----    | s j e - - - -   |
| Spanish          | 14-012728-   | s - e g a r -   |
| Italian          | 14-0127330   | s - e g a r e   |
| PortugueseBrazil | 14-012736-   | s - e g a æ -   |
| Portuguese       | 14-47852728- | s - i y a r -   |
| Catalan          | 14-48527--   | s - ə y a - -   |
| Walloon          |              |                 |
| Friulian         | 14-0-53--    | s - e - a : - - |
| Romanian         |              |                 |

### [ ToCut ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 5115332053330 | k u r t a : r e |
| French           |               |                 |
| Spanish          | 51628202728-  | k o r t a r -   |
| Italian          |               |                 |
| PortugueseBrazil | 51636202736-  | k o æ t a æ -   |
| Portuguese       | 511528202728- | k u r t a r -   |

## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ ToCut ]

|                  |                    |                      |
|------------------|--------------------|----------------------|
| Latin            | 051145115332053330 | e k s k u r t a: r e |
| French           | 0--511536200--     | e - - k u æ t e - -  |
| Spanish          |                    |                      |
| Italian          | --14516332027330   | - - s k o r t a r e  |
| PortugueseBrazil |                    |                      |
| Portuguese       |                    |                      |
| Catalan          |                    |                      |
| Walloon          |                    |                      |
| Friulian         | --145115332053--   | - - s k u r t a: - - |
| Romanian         | --145115332027--   | - - s k u r t a - -  |

### [ ToCut ]

|                  |                |                   |
|------------------|----------------|-------------------|
| Latin            | 2053-32753330  | t a: - l i a: r e |
| French           | 208412--0--    | t a j - - e - -   |
| Spanish          | 2027-34-2728-  | t a - x - a r -   |
| Italian          | 2027-353553330 | t a - Á Á a: r e  |
| PortugueseBrazil | 2027-35-2736-  | t a - Á - a æ -   |
| Portuguese       | 2029-35-2728-  | t ø - Á - a r -   |
| Catalan          | 204-35-27--    | t ə - Á - a - -   |
| Walloon          | 2031--1237--   | t ε - - j i: - -  |
| Friulian         | 2027--1253--   | t a - - j a: - -  |
| Romanian         | 204--1227--    | t ə - - j a - -   |

### [ ToSplit ]

|                  |              |                  |
|------------------|--------------|------------------|
| Latin            | 233787230330 | d i: w i d e r e |
| French           |              |                  |
| Spanish          | 23719723728- | d i b i d i r -  |
| Italian          | 237187230330 | d i v i d e r e  |
| PortugueseBrazil | 10718710736- | ɖ i v i ɖ i æ -  |
| Portuguese       | 23718750728- | d i v i ð i r -  |
| Catalan          | 237197237--  | d i b i d i - -  |
| Walloon          |              |                  |
| Friulian         | 237187237--  | d i v i d i - -  |
| Romanian         | 237187230--  | d i v i d e - -  |

### [ ToSplit ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 1451713230330 | s k i n d e r e |
| French           | 14-62-230--   | s - ě - d e - - |
| Spanish          |               |                 |
| Italian          | 16-713230330  | ʃ - i n d e r e |
| PortugueseBrazil |               |                 |
| Portuguese       |               |                 |
| Catalan          |               |                 |
| Walloon          |               |                 |
| Friulian         |               |                 |
| Romanian         |               |                 |

### [ ToSplit ]

|        |             |               |
|--------|-------------|---------------|
| Latin  | 24713230330 | f i n d e r e |
| French | 2443-23-36- | f ā - d - æ - |

## Appendix 3 - Character File

|                  |                  |                   |
|------------------|------------------|-------------------|
| Spanish          | -01323028-       | - e n d e r -     |
| Italian          | 243113230330     | f ε n d e r e     |
| PortugueseBrazil | 2464-23036-      | f ē - d e ʁ -     |
| Portuguese       | 2464-23028-      | f ē - d e r -     |
| Catalan          | 24311323-284     | f ε n d - r ə     |
| Walloon          | 2462-20---       | f ē - t - - -     |
| Friulian         |                  |                   |
| Romanian         |                  |                   |
| [ ToSplit ]      |                  |                   |
| Latin            | 4827332037330    | p a r t i r e     |
| French           | 48273620736-     | p a ʁ t i ʁ -     |
| Spanish          | 48272820728-     | p a r t i r -     |
| Italian          | 482733207330     | p a r t i r e     |
| PortugueseBrazil | 48273646736-     | p a ʁ f i ʁ -     |
| Portuguese       | 48292820728-     | p ɛ r t i r -     |
| Catalan          | 48433207--       | p ə r t i - -     |
| Walloon          | 487355207--      | p ɔː r t i - -    |
| Friulian         | 4827332037--     | p a r t i - -     |
| Romanian         |                  |                   |
| [ ToSplit ]      |                  |                   |
| Latin            | 142548273353330- | s e p a r a r e - |
| French           | 144-18---360     | s ə - v - - - ʁ e |
| Spanish          | 1404827282728--  | s e p a r a r - - |
| Italian          | 14048273327330-  | s e p a r a r e - |
| PortugueseBrazil | 1404827282736--  | s e p a r a ʁ - - |
| Portuguese       | 14474829282728-- | s i p ɛ r a r - - |
| Catalan          | 1444842827---    | s ə p ə r a - - - |
| Walloon          |                  |                   |
| Friulian         | 14048273353---   | s e p a r a - - - |
| Romanian         | 14048273327---   | s e p a r a - - - |
| [ ToStab ]       |                  |                   |
| Latin            | 48-151310330     | p - u n g e r e   |
| French           | 48862-23-36-     | p w ē - d - ʁ -   |
| Spanish          |                  |                   |
| Italian          | 48-1513100330    | p - u n ɕ e r e   |
| PortugueseBrazil | 48-90-3736-      | p - ã - ʒ i ʁ -   |
| Portuguese       | 48-90-3728-      | p - ã - ʒ i r -   |
| Catalan          | 48-1538-7--      | p - u n - i - -   |
| Walloon          |                  |                   |
| Friulian         |                  |                   |
| Romanian         | 481513100---     | p u n ɕ e - - -   |
| [ ToStab ]       |                  |                   |
| Latin            | 12151153253330   | j u g u l a r e   |
| French           | 322122320--      | ʒ y g y l e - -   |
| Spanish          |                  |                   |
| Italian          | 12151153253330   | j u g u l a r e   |
| PortugueseBrazil |                  |                   |
| Portuguese       |                  |                   |
| Catalan          |                  |                   |
| Walloon          |                  |                   |
| Friulian         |                  |                   |
| Romanian         |                  |                   |

## Appendix 3 - Character File

---

### [ ToScratch ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 3353230330 | r a : d e r e |
| French           |            |               |
| Spanish          | 3327-028-  | r a - e r -   |
| Italian          | 3327230330 | r a d e r e   |
| PortugueseBrazil | 3627-036-  | ʁ a - e ʁ -   |
| Portuguese       | 3629-028-  | ʁ ɐ - e r -   |
| Catalan          | 33278-284  | r a w - r ə   |
| Walloon          |            |               |
| Friulian         | 33272353-- | r a d a : - - |
| Romanian         | 3327230--  | r a d e - -   |

### [ ToScratch ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            |             |               |
| French           | 3684490--   | ʁ a z e - -   |
| Spanish          | 3327142728- | r a s a r -   |
| Italian          | 33271427330 | r a s a r e   |
| PortugueseBrazil | 3627492736- | ʁ a z a ʁ -   |
| Portuguese       | 3629492728- | ʁ ɐ z a r -   |
| Catalan          | 3344927--   | r ə z a - -   |
| Walloon          |             |               |
| Friulian         | 33271453--  | r a s a : - - |
| Romanian         |             |               |

### [ ToScratch ]

|                  |              |             |
|------------------|--------------|-------------|
| Latin            |              |             |
| French           |              |             |
| Spanish          | 332714512728 | r a s k a r |
| Italian          |              |             |
| PortugueseBrazil | 362716512736 | ʁ a ʃ k a ʁ |
| Portuguese       | 362916512728 | ʁ ɐ ʃ k a r |
| Catalan          | 334145127-   | r ə s k a - |
| Walloon          |              |             |
| Friulian         |              |             |
| Romanian         |              |             |

### [ ToScratch ]

|                  |            |           |
|------------------|------------|-----------|
| Latin            |            |           |
| French           |            |           |
| Spanish          |            |           |
| Italian          |            |           |
| PortugueseBrazil | 516142791  | k o s a ɹ |
| Portuguese       | 5115142728 | k u s a r |
| Catalan          |            |           |
| Walloon          |            |           |
| Friulian         |            |           |
| Romanian         |            |           |

### [ ToDig ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 24-6230330 | f - o d e r e |
| French           | 2487--36-  | f w i - - ʁ - |
| Spanish          |            |               |
| Italian          |            |               |
| PortugueseBrazil |            |               |
| Portuguese       |            |               |

## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ ToDig ]

|                  |             |              |
|------------------|-------------|--------------|
| Latin            | 5127853330  | k a w a: r e |
| French           | 164180--    | ʃ ə v e - -  |
| Spanish          | 5127192728- | k a b a r -  |
| Italian          | 51271827330 | k a v a r e  |
| PortugueseBrazil | 5129182736- | k ɐ v a ʁ -  |
| Portuguese       | 5129182728- | k ɐ v a r -  |
| Catalan          | 5141927--   | k ə b a - -  |
| Walloon          |             |              |
| Friulian         | 83271853--  | ʃ a v a: - - |
| Romanian         |             |              |

### [ ToDig ]

|                  |                 |                    |
|------------------|-----------------|--------------------|
| Latin            | 051145127853330 | e k s k a w a: r e |
| French           |                 |                    |
| Spanish          | 0145127192728-- | e s k a b a r - -  |
| Italian          | --1451271827330 | - - s k a v a r e  |
| PortugueseBrazil | 7-165129182736- | i - ʃ k ɐ v a ʁ -  |
| Portuguese       | 7-165129182728- | i - ʃ k ɐ v a r -  |
| Catalan          |                 |                    |
| Walloon          |                 |                    |
| Friulian         | --4983271853--  | - - z ʃ a v a: - - |
| Romanian         |                 |                    |

### [ ToSwim ]

|                  |              |                |
|------------------|--------------|----------------|
| Latin            | 13-272053330 | n - a t a: r e |
| French           |              |                |
| Spanish          | 13-27232728- | n - a d a r -  |
| Italian          | 13862027280  | n w o t a r e  |
| PortugueseBrazil | 13-27232736- | n - a d a ʁ -  |
| Portuguese       | 13-29502728- | n - ɐ ð a r -  |
| Catalan          | 13-42327--   | n - ə d a - -  |
| Walloon          |              |                |
| Friulian         | 13-272353--  | n - a d a: - - |
| Romanian         |              |                |

### [ ToSwim ]

|                  |                 |                  |
|------------------|-----------------|------------------|
| Latin            | 1327187153330   | n a v i g a: r e |
| French           | 1327--30--      | n a - - ʒ e - -  |
| Spanish          | 132719012728-   | n a b e g a r -  |
| Italian          | 1327187127330   | n a v i g a r e  |
| PortugueseBrazil | 13271847852736- | n a v i ɣ a ʁ -  |
| Portuguese       | 13291847852728- | n ɐ v i ɣ a r -  |
| Catalan          | 134194127--     | n ə b ə g a - -  |
| Walloon          | 1331--1037--    | n ɛ - - dʒi: - - |
| Friulian         | 1327187153--    | n a v i g a: - - |
| Romanian         | 1327187127--    | n a v i g a - -  |

### [ ToFly ]

|        |           |              |
|--------|-----------|--------------|
| Latin  | 863253330 | w o l a: r e |
| French | 186320--  | v o l e - -  |



## Appendix 3 - Character File

|                  |                  |                     |
|------------------|------------------|---------------------|
| Spanish          | 196322728-       | b o l a r -         |
| Italian          | 1863227280       | v o l a r e         |
| PortugueseBrazil | 186-2736-        | v o - a ¢ -         |
| Portuguese       | 188-2728-        | v w - a r -         |
| Catalan          | 19153227--       | b u l a - -         |
| Walloon          | 189320--         | v o l e - -         |
| Friulian         |                  |                     |
| Romanian         |                  |                     |
| [ ToFly ]        |                  |                     |
| Latin            |                  |                     |
| French           |                  |                     |
| Spanish          |                  |                     |
| Italian          | 491863227280     | z v o l a r e       |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          |                  |                     |
| Walloon          |                  |                     |
| Friulian         | 491863253--      | z v o l a : - -     |
| Romanian         | 4919152827--     | z b u r a - -       |
| [ ToWalk ]       |                  |                     |
| Latin            |                  |                     |
| French           | 164267130---     | ʃ ə m i n e - - -   |
| Spanish          | 5127267132728--  | k a m i n a r - -   |
| Italian          | 5127262671327280 | k a m m i n a r e   |
| PortugueseBrazil | 5129267382736--  | k e m i ɲ a ¢ - -   |
| Portuguese       | 5129267382728--  | k e m i ɲ a r - -   |
| Catalan          | 5142671327---    | k ə m i n a - - -   |
| Walloon          | 467267130---     | ʃ i m i n e - - -   |
| Friulian         | 65272671353---   | c a m i n a : - - - |
| Romanian         |                  |                     |
| [ ToWalk ]       |                  |                     |
| Latin            |                  |                     |
| French           | 262736160        | m a ¢ ʃ e           |
| Spanish          |                  |                     |
| Italian          |                  |                     |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          |                  |                     |
| Walloon          | 2653554637       | m a : R ʃ i :       |
| Friulian         |                  |                     |
| Romanian         |                  |                     |
| [ ToWalk ]       |                  |                     |
| Latin            | 2603310330       | m e r g e r e       |
| French           |                  |                     |
| Spanish          |                  |                     |
| Italian          | 263133100330     | m ε r ɕ g e r e     |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          |                  |                     |
| Walloon          |                  |                     |
| Friulian         |                  |                     |
| Romanian         | 26033100--       | m e r ɕ e - -       |

## Appendix 3 - Character File

### [ ToWalk ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | 27261972053330 | a m b i t a r e |
| French           |                |                 |
| Spanish          | 271323--2728-  | a n d - - a r - |
| Italian          | 271323--27330  | a n d - - a r e |
| PortugueseBrazil | 45-23--2736-   | ẽ - d - - a ʁ - |
| Portuguese       | 45-23--2728-   | ẽ - d - - a r - |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |

### [ ToCome ]

|                  |           |             |
|------------------|-----------|-------------|
| Latin            | 801337330 | w e n i r e |
| French           | 18413736- | v ə n i ʁ - |
| Spanish          | 19013728- | b e n i r - |
| Italian          | 180137280 | v e n i r e |
| PortugueseBrazil | 18--736-  | v - - i ʁ - |
| Portuguese       | 18--728-  | v - - i r - |
| Catalan          | 194137--  | b ə n i - - |
| Walloon          | 187137--  | v i n i - - |
| Friulian         | 1873837-- | v i ɲ i - - |
| Romanian         | 180137--  | v e n i - - |

### [ ToLieAsInABed ]

|                  |                  |                      |
|------------------|------------------|----------------------|
| Latin            | 0511420013230330 | e k s t e n d e r e  |
| French           | 0-2043-23-36--   | e - t ɑ̃ - d - ʁ - - |
| Spanish          | 051142001323028- | e k s t e n d e r -  |
| Italian          | 0-14203113230330 | e - s t ɛ n d e r e  |
| PortugueseBrazil | 7142064-23036--  | i s t ẽ - d e ʁ - -  |
| Portuguese       | 7162064-23028--  | i ʃ t ẽ - d e r - -  |
| Catalan          | 4-142001323-284  | ə - s t e n d - r ə  |
| Walloon          |                  |                      |
| Friulian         |                  |                      |
| Romanian         | 0511420713230--  | e k s t i n d e - -  |

### [ ToLieAsInABed ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 1227-5125330 | j a - k e r e   |
| French           | 30-49736-    | ʒ e - z i ʁ -   |
| Spanish          | 527-58028-   | j a - θ e r -   |
| Italian          | 1027-4625280 | ʒ a - ʃ e r e   |
| PortugueseBrazil | 329-49036-   | ʒ ɐ - z e ʁ -   |
| Portuguese       | 329-49028-   | ʒ ɐ - z e r -   |
| Catalan          | 3278--284    | ʒ a w - - r ə   |
| Walloon          | 100--330-    | ʒ e - - r e -   |
| Friulian         | 120-147--    | j e - s i - -   |
| Romanian         | 494-4680--   | z ə - ʃ ɛ a - - |

### [ ToSit ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 14-02325330 | s - e d e r e |
| French           | 14827--36-  | s w a - - ʁ - |
| Spanish          | 14-0--28-   | s - e - - r - |
| Italian          | 14-0230330  | s - e d e r e |
| PortugueseBrazil | 14-0--36-   | s - e - - ʁ - |
| Portuguese       | 14-0--28-   | s - e - - r - |

## Appendix 3 - Character File

|                        |                 |                    |
|------------------------|-----------------|--------------------|
| Catalan                |                 |                    |
| Walloon                |                 |                    |
| Friulian               |                 |                    |
| Romanian               | 16-02380--      | ſ - e d ęa - -     |
| [ ToSit ]              |                 |                    |
| Latin                  | 140230132053330 | s e d e n t a: r e |
| French                 |                 |                    |
| Spanish                | 140--13202728-  | s e - - n t a r -  |
| Italian                |                 |                    |
| PortugueseBrazil       | 1464---202728-  | s ě - - - t a r -  |
| Portuguese             | 1464---202728-  | s ě - - - t a r -  |
| Catalan                |                 |                    |
| Walloon                |                 |                    |
| Friulian               | 140--132053--   | s e - - n t a: - - |
| Romanian               |                 |                    |
| [ ToStand ]            |                 |                    |
| Latin                  | -142053330      | - s t a: r e       |
| French                 | 31-20-36-       | ε - t - ʁ -        |
| Spanish                | 014202728-      | e s t a r -        |
| Italian                | -142027330      | - s t a r e        |
| PortugueseBrazil       | 4716202728-     | i ſ t a r -        |
| Portuguese             | 4716202728-     | i ſ t a r -        |
| Catalan                | 4142027--       | ə s t a - -        |
| Walloon                | 3114----        | ε s - - - -        |
| Friulian               | -142053--       | - s t a: - -       |
| Romanian               | -142027--       | - s t a - -        |
| [ ToStand ]            |                 |                    |
| Latin                  | 3201853330      | l e v a: r e       |
| French                 | 324180--        | l ə v e - -        |
| Spanish                | 50192728-       | j e b a r -        |
| Italian                | 3201827330      | l e v a r e        |
| PortugueseBrazil       | 320182736-      | l e v a ʁ -        |
| Portuguese             | 3247182728-     | l i v a r -        |
| Catalan                | 3541927--       | ʎ ə b a - -        |
| Walloon                | 324180--        | l ə v e - -        |
| Friulian               | 3201853--       | l e v a: - -       |
| Romanian               | 32-1527--       | l - u a - -        |
| [ ToStand ]            |                 |                    |
| Latin                  | -273220753330   | - a l t i a: r e   |
| French                 | -6-14-0--       | - o - s - e - -    |
| Spanish                | -273258-2728-   | - a l θ - a r -    |
| Italian                | -27325227330-   | - a l t s a r e -  |
| PortugueseBrazil       | -276814-27--    | - a ł s - a - -    |
| Portuguese             | -276814-2728-   | - a ł s - a r -    |
| Catalan                | -43214-27--     | - ə l s - a - -    |
| Walloon                | 4073-14-37--    | h ɔ: - s - i: - -  |
| Friulian               | -27322016-53-   | - a l t ſ - a: -   |
| Romanian               |                 |                    |
| [ ToTurnIntransitive ] |                 |                    |
| Latin                  | 206331353330    | t o r n a: r e     |
| French                 | 201536130--     | t u ʁ n e - -      |

## Appendix 3 - Character File

|                  |               |                 |
|------------------|---------------|-----------------|
| Spanish          | 20628132728-  | t o r n a r -   |
| Italian          | 206331327330  | t o r n a r e   |
| PortugueseBrazil | 20636132736-  | t o r n a r -   |
| Portuguese       | 201528132728- | t u r n a r -   |
| Catalan          | 2015331327--  | t u r n a - -   |
| Walloon          | 202133130--   | t u : r n e - - |
| Friulian         | 206331353--   | t o r n a : - - |
| Romanian         | 2015331327--  | t u r n a - -   |

### [ ToTurnIntransitive ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 1223353330 | g y r a : r e |
| French           | 37360--    | ʒ i r e - -   |
| Spanish          | 347282728- | x i r a r -   |
| Italian          | 1073327280 | ʒ i r a r e   |
| PortugueseBrazil | 37282728-  | ʒ i r a r -   |
| Portuguese       | 37282728-  | ʒ i r a r -   |
| Catalan          | 372827--   | ʒ i r a - -   |
| Walloon          |            |               |
| Friulian         | 1073353--  | ʒ i r a : - - |
| Romanian         |            |               |

### [ ToTurnIntransitive ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            |            |               |
| French           | 187360--   | v i r e - -   |
| Spanish          | 197282728- | b i r a r -   |
| Italian          | 1873327280 | v i r a r e   |
| PortugueseBrazil | 187282728- | v i r a r -   |
| Portuguese       | 37282728-  | ʒ i r a r -   |
| Catalan          | 1972827--  | b i r a - -   |
| Walloon          | 187360--   | v i r e - -   |
| Friulian         | 1073353--  | ʒ i r a : - - |
| Romanian         |            |               |

### [ ToTurnIntransitive ]

|                  |              |                              |
|------------------|--------------|------------------------------|
| Latin            | 206338725330 | t o r k <sup>w</sup> e : r e |
| French           | 2093623-36-  | t ɔ r d - r -                |
| Spanish          | 2062858028-  | t o r θ e r -                |
| Italian          | 20933460330  | t ɔ r t f e r e              |
| PortugueseBrazil | 20153314033- | t u r s e r -                |
| Portuguese       | 20153314033- | t u r s e r -                |
| Catalan          | 20933144--   | t ɔ r s ə - -                |
| Walloon          |              |                              |
| Friulian         |              |                              |
| Romanian         | 203933460--  | t ɔ r t f e - -              |

### [ ToFall ]

|                  |             |                   |
|------------------|-------------|-------------------|
| Latin            | 51-27230330 | k - a d e r e     |
| French           | 16827--36-  | f w a - - r -     |
| Spanish          | 51-27-028-  | k - a - e r -     |
| Italian          | 51-27230280 | k - a d e r e     |
| PortugueseBrazil | 51-29-728-  | k - e - i r -     |
| Portuguese       | 51-29-728-  | k - e - i r -     |
| Catalan          | 51-278-334  | k - a w - r ə     |
| Walloon          | 46-57--55-  | t f - ε : - - r - |
| Friulian         | 461227230-- | t f j a d e - -   |
| Romanian         | 5142380---  | k ə d ɛ a - -     |

## Appendix 3 - Character File

---

### [ ToFall ]

|                  |              |             |
|------------------|--------------|-------------|
| Latin            |              |             |
| French           | 2061-190-    | t ò - b e - |
| Spanish          | 201526192728 | t u m b a r |
| Italian          |              |             |
| PortugueseBrazil | 2061-192736  | t ò - b a ¤ |
| Portuguese       | 2061-192728  | t ò - b a r |
| Catalan          | 2015261927-  | t u m b a - |
| Walloon          | 201526-0-    | t u m - e - |
| Friulian         |              |             |
| Romanian         |              |             |

### [ ToGive ]

|                  |         |          |
|------------------|---------|----------|
| Latin            | 2327330 | d a r e  |
| French           |         |          |
| Spanish          | 232728- | d a r -  |
| Italian          | 2327330 | d a r e  |
| PortugueseBrazil | 232736- | d a ¤ -  |
| Portuguese       | 232728- | d a r -  |
| Catalan          | 232733- | d a r -  |
| Walloon          |         |          |
| Friulian         | 2353--  | d a: - - |
| Romanian         | 2327--  | d a - -  |

### [ ToGive ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 2361353330 | d o n a: r e |
| French           | 239130--   | d ò n e - -  |
| Spanish          | 236132728- | d o n a r -  |
| Italian          | 2361327330 | d o n a r e  |
| PortugueseBrazil | 236-27--   | d o - a - -  |
| Portuguese       | 2315-2728- | d u - a r -  |
| Catalan          | 23151327-- | d u n a - -  |
| Walloon          | 237130--   | d i n e - -  |
| Friulian         | 2361353--  | d o n a: - - |
| Romanian         |            |              |

### [ ToHold ]

|                  |             |                 |
|------------------|-------------|-----------------|
| Latin            | 20013-25330 | t e n - e: r e  |
| French           | 20413-736-  | t ə n - i ¤ -   |
| Spanish          | 20013-028-  | t e n - e r -   |
| Italian          | 20013-0280  | t e n - e r e   |
| PortugueseBrazil | 200---36-   | t e - - - ¤ -   |
| Portuguese       | 200---28-   | t e - - - r -   |
| Catalan          | 20413-7--   | t ə n - i - -   |
| Walloon          | 20713-7--   | t i n - i - -   |
| Friulian         | 20713127--  | t i n j i - -   |
| Romanian         | 52713-0--   | t s i n - e - - |

### [ ToHold ]

|                  |                |               |
|------------------|----------------|---------------|
| Latin            |                |               |
| French           |                |               |
| Spanish          | 140115282728   | s e g u r a r |
| Italian          |                |               |
| PortugueseBrazil | 1447115282736  | s i g u r a ¤ |
| Portuguese       | 14478515282728 | s i ¸ u r a r |

## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ ToSqueeze ]

|                  |                   |                       |
|------------------|-------------------|-----------------------|
| Latin            | 051144833726-0330 | e k s p r i m - e r e |
| French           | 0--483662-23-36-  | e - - p ɤ ã - d - ɤ - |
| Spanish          | 051144828026-728- | e k s p r e m - i r - |
| Italian          | --1448333126-0330 | - - s p r e m - e r e |
| PortugueseBrazil | 7-164833426-036-  | i - ʃ p r ə m - e ɤ - |
| Portuguese       | 7-164833426-033-  | i - ʃ p r ə m - e r - |
| Catalan          | 4-144828026-4--   | ə - s p r e m - ə - - |
| Walloon          |                   |                       |
| Friulian         | 0-144833726-7--   | e - s p r i m - i - - |
| Romanian         | -1451-330260---   | - s k - r e m e - - - |

### [ ToSqueeze ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 14033330330 | s e r r e r e |
| French           |             |               |
| Spanish          | 140-332728- | s e - r a r - |
| Italian          |             |               |
| PortugueseBrazil | 140-3627--  | s e - ɤ a - - |
| Portuguese       | 144-552728- | s ə - ɤ a r - |
| Catalan          | 144-3327--  | s ə - r a - - |
| Walloon          |             |               |
| Friulian         |             |               |
| Romanian         |             |               |

### [ ToSqueeze ]

|                  |              |               |
|------------------|--------------|---------------|
| Latin            | 140-3327330  | s e - r a r e |
| French           | 140-360--    | s e - ɤ e - - |
| Spanish          | 580-332728-  | θ e - r a r - |
| Italian          | 140333327330 | s e r r a r e |
| PortugueseBrazil | 1447-362728- | s i - ɤ a r - |
| Portuguese       | 1447-362728- | s i - ɤ a r - |
| Catalan          |              |               |
| Walloon          | 1431-550--   | s ɛ - ɤ e - - |
| Friulian         |              |               |
| Romanian         |              |               |

### [ ToSqueeze ]

|                  |                     |                       |
|------------------|---------------------|-----------------------|
| Latin            | 2748480512063353330 | a p p e k t o r a r e |
| French           |                     |                       |
| Spanish          | 27-48--280202728-   | a - p - - r e t a r - |
| Italian          |                     |                       |
| PortugueseBrazil | 29-4847-28-202728-  | ɐ - p i - r - t a r - |
| Portuguese       | 29-4847-28-202728-  | ɐ - p i - r - t a r - |
| Catalan          |                     |                       |
| Walloon          |                     |                       |
| Friulian         |                     |                       |
| Romanian         |                     |                       |

### [ ToSqueeze ]

|        |                 |                     |
|--------|-----------------|---------------------|
| Latin  | -14203371310330 | - s t r i n g e r e |
| French | 0-203662-23-36- | e - t ɤ ã - d - ɤ - |

## Appendix 3 - Character File

|                  |                  |                     |
|------------------|------------------|---------------------|
| Spanish          | 0142028038-728-  | e s t r e p - i r - |
| Italian          | -142033713100330 | - s t r i n d æ r e |
| PortugueseBrazil | 416203344-3733-  | ə ʃ t r i - z i r - |
| Portuguese       | 4162033443733--  | ə ʃ t r i z i r - - |
| Catalan          | 41420283138-4--  | ə s t r e p - ə - - |
| Walloon          | -14203371310--   | - s t r i n g e - - |
| Friulian         | -1420333113137-- | - s t r e n g i - - |
| Romanian         | -1420334713100-- | - s t r i n d æ - - |

### [ ToRub ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 243375153330 | f r i k a: r e  |
| French           | 2436860---   | f ʁ e j e - - - |
| Spanish          | 2428012728-  | f r e g a r -   |
| Italian          | 24330127330  | f r e g a r e   |
| PortugueseBrazil |              |                 |
| Portuguese       |              |                 |
| Catalan          | 24284127--   | f r ə g a - -   |
| Walloon          | 243317----   | f r o j - - - - |
| Friulian         | 24330-27--   | f r e - a - -   |
| Romanian         | 243305127--  | f r e k a - -   |

### [ ToRub ]

|                  |                  |                 |
|------------------|------------------|-----------------|
| Latin            |                  |                 |
| French           |                  |                 |
| Spanish          |                  |                 |
| Italian          |                  |                 |
| PortugueseBrazil | 471624284712728  | i ʃ f r i g a r |
| Portuguese       | 4716242847852728 | i ʃ f r i y a r |
| Catalan          |                  |                 |
| Walloon          |                  |                 |
| Friulian         |                  |                 |
| Romanian         |                  |                 |

### [ ToRub ]

|                  |                |                  |
|------------------|----------------|------------------|
| Latin            | 24337512053330 | f r i k t a: r e |
| French           | 24366200---    | f ʁ o t e - - -  |
| Spanish          | 24286202728--  | f r o t a r - -  |
| Italian          | 24330202027330 | f r e t t a r e  |
| PortugueseBrazil |                |                  |
| Portuguese       |                |                  |
| Catalan          |                |                  |
| Walloon          | 24366200---    | f ʁ o t e - - -  |
| Friulian         |                |                  |
| Romanian         |                |                  |

### [ ToRub ]

|                  |             |             |
|------------------|-------------|-------------|
| Latin            |             |             |
| French           |             |             |
| Spanish          | 24337142728 | f r i s a r |
| Italian          |             |             |
| PortugueseBrazil |             |             |
| Portuguese       |             |             |
| Catalan          | 242841427-  | f r ə s a - |
| Walloon          |             |             |
| Friulian         |             |             |
| Romanian         |             |             |

## Appendix 3 - Character File

### [ ToWash ]

|                  |             |               |
|------------------|-------------|---------------|
| Latin            | 3227853330  | l a w a : r e |
| French           | 3227180--   | l a v e - -   |
| Spanish          | 3227672728- | l a ß a r -   |
| Italian          | 32271827330 | l a v a r e   |
| PortugueseBrazil | 3229182728- | l e v a r -   |
| Portuguese       | 3229182728- | l e v a r -   |
| Catalan          | 3541927--   | l a b a - -   |
| Walloon          | 3227180--   | l a v e - -   |
| Friulian         | 32271853--  | l a v a : - - |
| Romanian         | 3227---     | l a - - - -   |

### [ ToWipe ]

|                  |              |               |
|------------------|--------------|---------------|
| Latin            | 2003310330   | t e r g e r e |
| French           |              |               |
| Spanish          |              |               |
| Italian          | 203133100330 | t e r ð e r e |
| PortugueseBrazil |              |               |
| Portuguese       |              |               |
| Catalan          |              |               |
| Walloon          |              |               |
| Friulian         |              |               |
| Romanian         |              |               |

### [ ToWipe ]

|                  |                  |                     |
|------------------|------------------|---------------------|
| Latin            | 051142003310330  | e k s t e r g e r e |
| French           |                  |                     |
| Spanish          | 0-1420272814728- | e - s t a r s i r - |
| Italian          |                  |                     |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          | 4-142043337--    | ə - s t ə r z i - - |
| Walloon          |                  |                     |
| Friulian         |                  |                     |
| Romanian         | --1620033100--   | - - f t e r ð e - - |

### [ ToWipe ]

|                  |                  |                         |
|------------------|------------------|-------------------------|
| Latin            | 05114-2151-53330 | e k s - u : k - a : r e |
| French           | 0-14697-120--    | e - s ũ i - j e - -     |
| Spanish          | 01334-151-2728-  | e n x - u g - a r -     |
| Italian          | 271616-151-27330 | a f f - u g - a r e     |
| PortugueseBrazil | 64-16-151-2728-  | ē - f - u g - a r -     |
| Portuguese       | 64-16-1585-2728- | ē - f - u ŷ - a r -     |
| Catalan          | 4-16-15127---    | ə - f - u g a - - -     |
| Walloon          | --14-15-80--     | - - s - u - w e - -     |
| Friulian         | --14-15-1253--   | - - s - u - j a : - -   |
| Romanian         | 15-14--51-27--   | u - s - - k - a - -     |

### [ ToWipe ]

|                  |                 |                     |
|------------------|-----------------|---------------------|
| Latin            | 327264872353330 | l i m p i d a : r e |
| French           |                 |                     |
| Spanish          | 327264812-2728- | l i m p j - a r -   |
| Italian          |                 |                     |
| PortugueseBrazil | 3244-48--2728-  | l i - p - - a r -   |
| Portuguese       | 3244-48--2728-  | l i - p - - a r -   |



## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ ToPull ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 2073353330 | t i r a: r e |
| French           | 207360--   | t i ʁ e - -  |
| Spanish          | 207282728- | t i r a r -  |
| Italian          | 2073327330 | t i r a r e  |
| PortugueseBrazil | 4672827--  | tʃ i r a - - |
| Portuguese       | 207282728- | t i r a r -  |
| Catalan          | 2072827--  | t i r a - -  |
| Walloon          | 207330--   | t i r e - -  |
| Friulian         | 2073353--  | t i r a: - - |
| Romanian         |            |              |

### [ ToPull ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            | 4815321453330 | p u l s a: r e  |
| French           | 4815-140--    | p u - s e - -   |
| Spanish          | 4815-342728-  | p u - x a r -   |
| Italian          | 4815321427330 | p u l s a r e   |
| PortugueseBrazil | 4815-162728-  | p u - ʃ a r -   |
| Portuguese       | 4815-162728-  | p u - ʃ a r -   |
| Catalan          |               |                 |
| Walloon          | 48211437---   | p u: s i: - - - |
| Friulian         | 4815321453--  | p u l s a: - -  |
| Romanian         | 4815321427--  | p u l s a - -   |

### [ ToPull ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 203327400330 | t r a h e r e   |
| French           | 2036--3136-  | t ʁ - - ε ʁ -   |
| Spanish          |              |                 |
| Italian          | 20332733-330 | t r a r - r e   |
| PortugueseBrazil | 202827490--  | t r a z e - -   |
| Portuguese       | 20282949028- | t r ɐ z e r -   |
| Catalan          | 2028318-284  | t r ε w - r ə   |
| Walloon          |              |                 |
| Friulian         | 203356----   | t r a j - - - - |
| Romanian         | 203327100--  | t r a ɕ e - -   |

### [ ToPush ]

|                  |                |                   |
|------------------|----------------|-------------------|
| Latin            | 7264871310330  | i m p i n g e r e |
| French           |                |                   |
| Spanish          |                |                   |
| Italian          | 72648713100330 | i m p i n ɕ e r e |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          | 426483138-4--  | ə m p ε ɲ - ə - - |
| Walloon          |                |                   |
| Friulian         |                |                   |
| Romanian         | 472648713100-- | i m p i n ɕ e - - |

### [ ToThrow ]

|        |               |                |
|--------|---------------|----------------|
| Latin  | 1227512053330 | j a k t a: r e |
| French | 34-200--      | ʒ ə - t e - -  |

## Appendix 3 - Character File

|                  |                  |                     |
|------------------|------------------|---------------------|
| Spanish          | -0-462728-       | - e - tʃ a r -      |
| Italian          | 100202027330     | ɖ e t t a r e       |
| PortugueseBrazil | 359202728--      | ʒ e j t a r - -     |
| Portuguese       | 359202728--      | ʒ e j t a r - -     |
| Catalan          | 347-2027--       | x i - t a - -       |
| Walloon          | 1031-200--       | ɖ ɛ - t e - -       |
| Friulian         |                  |                     |
| Romanian         |                  |                     |
| [ ToThrow ]      |                  |                     |
| Latin            | 32271351053330   | l a n k e a: r e    |
| French           | 3243-14-0--      | l ã - s - e - -     |
| Spanish          | 32271358-2728-   | l a n θ - a r -     |
| Italian          | 32271346-27330   | l a n tʃ - a r e    |
| PortugueseBrazil | 3245-14-27--     | l ã - s - a - -     |
| Portuguese       | 3245-14-2728-    | l ã - s - a r -     |
| Catalan          | 3541314-27--     | ʎ ə n s - a - -     |
| Walloon          | 32271365-37--    | l a n c - i: - -    |
| Friulian         | 32271346-53--    | l a n tʃ - a: - -   |
| Romanian         |                  |                     |
| [ ToThrow ]      |                  |                     |
| Latin            | 25-3315135153330 | e: - r u n k a: r e |
| French           |                  |                     |
| Spanish          | 27-332713512728- | a - r a n k a r -   |
| Italian          | 2733336134627330 | a r r o n tʃ a r e  |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          |                  |                     |
| Walloon          |                  |                     |
| Friulian         |                  |                     |
| Romanian         | 27-2815755127--  | a - r u ŋ k a - -   |
| [ ToTie ]        |                  |                     |
| Latin            | 327153330        | l i g a: r e        |
| French           | 327-0--          | l i - e - -         |
| Spanish          | 32012728-        | l e g a r -         |
| Italian          | 320127330        | l e g a r e         |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          | 3578527--        | ʎ i y a - -         |
| Walloon          | 3291237--        | l ɔ j i: - -        |
| Friulian         | 320-53--         | l e - a: - -        |
| Romanian         | 320127--         | l e g a - -         |
| [ ToTie ]        |                  |                     |
| Latin            | 27482053330      | a p t a: r e        |
| French           |                  |                     |
| Spanish          | 27-202728-       | a - t a r -         |
| Italian          |                  |                     |
| PortugueseBrazil | 29-202728-       | ɐ - t a r -         |
| Portuguese       | 29-202728-       | ɐ - t a r -         |
| Catalan          |                  |                     |
| Walloon          |                  |                     |
| Friulian         |                  |                     |
| Romanian         |                  |                     |

## Appendix 3 - Character File

### [ ToSew ]

|                  |                |                     |
|------------------|----------------|---------------------|
| Latin            | 51213-14150330 | k o : n - s u e r e |
| French           | 5115-23---36-  | k u - d - - - x -   |
| Spanish          | 516--14-028-   | k o - - s - e r -   |
| Italian          | 5115--46-7330  | k u - - y - i r e   |
| PortugueseBrazil | 5115--49-028-  | k u - - z - e r -   |
| Portuguese       | 5115--49-028-  | k u - - z - e r -   |
| Catalan          | 5115--49-7--   | k u - - z - i - -   |
| Walloon          | 5172--49----   | k ø : - - z - - - - |
| Friulian         | 5115--497---   | k u - - z i - - -   |
| Romanian         | 6539--14-0--   | c q a - - s - e - - |

### [ ToCount ]

|                  |                  |                     |
|------------------|------------------|---------------------|
| Latin            | 5162648152053330 | k o m p u t a : r e |
| French           | 5161---200--     | k ò - - - t e - -   |
| Spanish          | 51613--202728-   | k o n - - t a r -   |
| Italian          | 51613--2027330   | k o n - - t a r e   |
| PortugueseBrazil | 5161---202728-   | k ò - - - t a r -   |
| Portuguese       | 5161---202728-   | k ò - - - t a r -   |
| Catalan          | 511526--2027--   | k u m - - t a - -   |
| Walloon          | 5161---200--     | k ò - - - t e - -   |
| Friulian         | 51613--2053--    | k o n - - t a : - - |
| Romanian         |                  |                     |

### [ ToCount ]

|                  |                  |                       |
|------------------|------------------|-----------------------|
| Latin            | 2513152603353330 | e : n u m e r a : r e |
| French           | 01315260360--    | e n u m e x e - -     |
| Spanish          | 01315260282728-  | e n u m e r a r -     |
| Italian          | 013152603327330  | e n u m e r a r e     |
| PortugueseBrazil | 01315260282728-  | e n u m e r a r -     |
| Portuguese       | 01315260282728-  | e n u m e r a r -     |
| Catalan          | 013152602827--   | e n u m e r a - -     |
| Walloon          |                  |                       |
| Friulian         |                  |                       |
| Romanian         |                  |                       |

### [ ToCount ]

|                  |                |                   |
|------------------|----------------|-------------------|
| Latin            | 13152603353330 | n u m e r a : r e |
| French           | 1342-19360--   | n ð - b x e - -   |
| Spanish          |                |                   |
| Italian          | 1361803327330  | n o v e r a r e   |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          | 13152602827--  | n u m e r a - -   |
| Walloon          |                |                   |
| Friulian         | 13152603353--  | n u m e r a : - - |
| Romanian         | 131526273327-- | n u m a r a - -   |

### [ ToSay ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 2337510330 | d i : k e r e |
| French           | 237--36-   | d i - - x -   |
| Spanish          | 23058728-  | d e θ i r -   |
| Italian          | 237--330   | d i - - r e   |
| PortugueseBrazil | 23749028-  | d i z e r -   |
| Portuguese       | 23749028-  | d i z e r -   |

## Appendix 3 - Character File

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Catalan          | 237----           | d i - - - -         |
| Walloon          | 2337--36-         | d i: - - ɣ -        |
| Friulian         | 2337----          | d i: - - - -        |
| Romanian         | 497460--          | z i ʃ e - -         |
| [ ToSay ]        |                   |                     |
| Latin            | 05114482130330    | e k s p o: n e r e  |
| French           |                   |                     |
| Spanish          |                   |                     |
| Italian          | --1448633-330     | - - s p o r - r e   |
| PortugueseBrazil |                   |                     |
| Portuguese       |                   |                     |
| Catalan          |                   |                     |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         | --144815130--     | - - s p u n e - -   |
| [ ToSing ]       |                   |                     |
| Latin            | 5127132053330     | k a n t a: r e      |
| French           | 1643-200--        | ʃ ã - t e - -       |
| Spanish          | 512713202728-     | k a n t a r -       |
| Italian          | 5127132027330     | k a n t a r e       |
| PortugueseBrazil | 5145-202728-      | k ẽ - t a r -       |
| Portuguese       | 5145-202728-      | k ẽ - t a r -       |
| Catalan          | 514132027--       | k ə n t a - -       |
| Walloon          | 4643-200--        | ʃ ã - t e - -       |
| Friulian         | 6527132053--      | c a n t a: - -      |
| Romanian         | 5147132027--      | k i n t a - -       |
| [ ToPlay ]       |                   |                     |
| Latin            | 3221230330        | l u: d e r e        |
| French           |                   |                     |
| Spanish          | 321523728-        | l u d i r -         |
| Italian          |                   |                     |
| PortugueseBrazil |                   |                     |
| Portuguese       |                   |                     |
| Catalan          |                   |                     |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         |                   |                     |
| [ ToPlay ]       |                   |                     |
| Latin            | 126-5153330       | j o - k a: r e      |
| French           | 3-8-0--           | ʒ - w - e - -       |
| Spanish          | 3415-12728-       | x u - g a r -       |
| Italian          | 106-5127330       | ʒ o - k a r e       |
| PortugueseBrazil | 36-12736-         | ʒ o - g a ɣ -       |
| Portuguese       | 315-852728-       | ʒ u - ɣ a r -       |
| Catalan          | 315-127--         | ʒ u - g a - -       |
| Walloon          | 10158-0--         | ʒ u w - e - -       |
| Friulian         | 101512-53--       | ʒ u j - a: - -      |
| Romanian         | 315-5127--        | ʒ u - k a - -       |
| [ ToFloat ]      |                   |                     |
| Latin            | 24322151201553330 | f l u: k t u a: r e |
| French           | 2432225120690--   | f l y k t ɥ e - -   |

## Appendix 3 - Character File

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Spanish          | 24321512082728-   | f l u g t w a r -   |
| Italian          | 24321520201527330 | f l u t t u a r e   |
| PortugueseBrazil | 243215-20152736-  | f l u - t u a æ -   |
| Portuguese       | 243215-20152728-  | f l u - t u a r -   |
| Catalan          | 24321551201527--  | f l u k t u a - -   |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         | 24321565201527--  | f l u c t u a - -   |
| [ ToFloat ]      |                   |                     |
| Latin            | 24321572053330    | f l u i t a r e     |
| French           |                   |                     |
| Spanish          |                   |                     |
| Italian          | 24321572027330    | f l u i t a r e     |
| PortugueseBrazil |                   |                     |
| Portuguese       |                   |                     |
| Catalan          |                   |                     |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         |                   |                     |
| [ ToFlow ]       |                   |                     |
| Latin            | 2432150330        | f l u e r e         |
| French           | 2432220--         | f l y e - -         |
| Spanish          | 243215728-        | f l u i r -         |
| Italian          | 2432157330        | f l u i r e         |
| PortugueseBrazil | 24328736-         | f l w i æ -         |
| Portuguese       | 24328728-         | f l w i r -         |
| Catalan          | 2432157--         | f l u i - -         |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         |                   |                     |
| [ ToFlow ]       |                   |                     |
| Latin            | 5123253330        | k o : l a r e       |
| French           | 5115320--         | k u l e - -         |
| Spanish          | 516322728-        | k o l a r -         |
| Italian          | 5163227330        | k o l a r e         |
| PortugueseBrazil | 516-2736-         | k o - a æ -         |
| Portuguese       | 5115-2728-        | k u - a r -         |
| Catalan          | 51156827--        | k u ł a - -         |
| Walloon          | 519320--          | k o l e - -         |
| Friulian         |                   |                     |
| Romanian         |                   |                     |
| [ ToFlow ]       |                   |                     |
| Latin            | 05114511533330330 | e k s k u r r e r e |
| French           |                   |                     |
| Spanish          | 0-14511533728--   | e - s k u r i r - - |
| Italian          | --1451633330330   | - - s k o r r e r e |
| PortugueseBrazil | 7-16516-36036-    | i - ſ k o - æ æ -   |
| Portuguese       | 7-165115-55028-   | i - ſ k u - æ r -   |
| Catalan          | 4-14516-334--     | ə - s k o - r ə - - |
| Walloon          |                   |                     |
| Friulian         | --14516-3337--    | - - s k o - r i - - |
| Romanian         | --14511528100--   | - - s k u r đ e - - |

## Appendix 3 - Character File

### [ ToFlow ]

|                  |              |               |
|------------------|--------------|---------------|
| Latin            | 511533330330 | k u r r e r e |
| French           | 5115-36736-  | k u - ʁ i ʁ - |
| Spanish          | 516-33028-   | k o - r e r - |
| Italian          | 51633330330  | k o r r e r e |
| PortugueseBrazil | 516-36036-   | k o - ʁ e ʁ - |
| Portuguese       | 5115-36028-  | k u - ʁ e r - |
| Catalan          | 516-334--    | k o - r ə - - |
| Walloon          |              |               |
| Friulian         | 516-337--    | k o - r i - - |
| Romanian         | 511528100--  | k u r ɕ e - - |

### [ ToFreeze ]

|                  |            |               |
|------------------|------------|---------------|
| Latin            | 103253330  | g e l a : r e |
| French           | 34320--    | ʒ ə l e - -   |
| Spanish          | -0322728-  | - e l a r -   |
| Italian          | 1003227330 | ɕ e l a r e   |
| PortugueseBrazil | 347322728- | ʒ i l a r -   |
| Portuguese       | 347322728- | ʒ i l a r -   |
| Catalan          | 343227--   | ʒ ə l a - -   |
| Walloon          | 1027320--  | ɕ a l e - -   |
| Friulian         |            |               |
| Romanian         |            |               |

### [ ToFreeze ]

|                  |                  |                     |
|------------------|------------------|---------------------|
| Latin            | 13227-51753330   | g l a - k i a : r e |
| French           | 13227-14-0--     | g l a - s - e - -   |
| Spanish          |                  |                     |
| Italian          | 1122720461227330 | g j a t ʃ j a r e   |
| PortugueseBrazil |                  |                     |
| Portuguese       |                  |                     |
| Catalan          | 1324-14-27--     | g l ə - s - a - -   |
| Walloon          |                  |                     |
| Friulian         | 13227-46-53--    | g l a - ʃ - a - -   |
| Romanian         |                  |                     |

### [ ToFreeze ]

|                  |                  |                       |
|------------------|------------------|-----------------------|
| Latin            | 7131322751753330 | i n g l a k i a : r e |
| French           |                  |                       |
| Spanish          |                  |                       |
| Italian          |                  |                       |
| PortugueseBrazil |                  |                       |
| Portuguese       |                  |                       |
| Catalan          |                  |                       |
| Walloon          |                  |                       |
| Friulian         |                  |                       |
| Romanian         | 47131-052-27--   | i n g - e t s - a - - |

### [ ToSwell ]

|                  |                 |                    |
|------------------|-----------------|--------------------|
| Latin            | 781260132053330 | aʁg me nt a : r e  |
| French           | 612643-200--    | o g m ɑ̃ - t e - - |
| Spanish          | 78-26013202728- | aʁ- me nt a r -    |
| Italian          | 78260132027330- | aʁme nt a r e -    |
| PortugueseBrazil | 78126013202728- | aʁg me nt a r -    |
| Portuguese       | 78126013202728- | aʁg me nt a r -    |

## Appendix 3 - Character File

|                  |                     |                         |
|------------------|---------------------|-------------------------|
| Catalan          | 27151260132027-     | a u g m e n t a -       |
| Walloon          |                     |                         |
| Friulian         |                     |                         |
| Romanian         |                     |                         |
| [ ToSwell ]      |                     |                         |
| Latin            | 713243253330        | i n f l a : r e         |
| French           | 43-24320--          | ã - f l e - -           |
| Spanish          | 71346-2728-         | i n ʃ - a r -           |
| Italian          | 01324727330         | e n f i a r e           |
| PortugueseBrazil | 44-16-2728-         | ĩ - ʃ - a r -           |
| Portuguese       | 44-16-2728-         | ĩ - ʃ - a r -           |
| Catalan          | 726243227--         | i m f l a - -           |
| Walloon          | 64-24320--          | ẽ - f l e - -           |
| Friulian         | 013243253--         | e n f l a : - -         |
| Romanian         | 1526243227--        | u m f l a - -           |
| [ ToSwell ]      |                     |                         |
| Latin            | -51-613243253330    | - k - o n f l a : r e   |
| French           | -1-61-24320--       | - g - õ - f l e - -     |
| Spanish          |                     |                         |
| Italian          | -1-613241227330     | - g - o n f j a r e     |
| PortugueseBrazil |                     |                         |
| Portuguese       |                     |                         |
| Catalan          |                     |                         |
| Walloon          | -1-61-24320--       | - g - õ - f l e - -     |
| Friulian         | 4913267524-53--     | z g l o ɲ f - a : - -   |
| Romanian         |                     |                         |
| [ ToSwell ]      |                     |                         |
| Latin            | 7132015262514510330 | i n t u m e : s k e r e |
| French           |                     |                         |
| Spanish          | 013201526058028--   | e n t u m e θ e r - -   |
| Italian          |                     |                         |
| PortugueseBrazil | 44-201526014-028-   | ĩ - t u m e s - e r -   |
| Portuguese       | 44-201526014-028-   | ĩ - t u m e s - e r -   |
| Catalan          |                     |                         |
| Walloon          |                     |                         |
| Friulian         |                     |                         |
| Romanian         |                     |                         |
| [ ToSwell ]      |                     |                         |
| Latin            | 5133-25145125330    | k r - e : s k e : r e   |
| French           | 5136827-20-36-      | k ʁ w a - t - ʁ -       |
| Spanish          | 5128-058-028-       | k r - e θ - e r -       |
| Italian          | 5133-016160330      | k r - e ʃ ʃ e r e       |
| PortugueseBrazil | 5128-014-036-       | k r - e s - e ʁ -       |
| Portuguese       | 5128-471614028-     | k r - i ʃ s e r -       |
| Catalan          | 5128-0-164--        | k r - e - ʃ ə - -       |
| Walloon          |                     |                         |
| Friulian         |                     |                         |
| Romanian         | 5128-016200--       | k r - e ʃ t e - -       |
| [ ToBurn ]       |                     |                         |
| Latin            |                     |                         |
| French           | 193622320--         | b ʁ y l e - -           |

## Appendix 3 - Character File

|                  |                 |                  |
|------------------|-----------------|------------------|
| Spanish          |                 |                  |
| Italian          | 1933154627330   | b r u ſ a r e    |
| PortugueseBrazil |                 |                  |
| Portuguese       |                 |                  |
| Catalan          |                 |                  |
| Walloon          | 193621320--     | b ʁ u:l e - -    |
| Friulian         | 1933154953--    | b r u z a: - -   |
| Romanian         |                 |                  |
| [ ToBurn ]       |                 |                  |
| Latin            | 513302653330    | k r e m a: r e   |
| French           | 513627260--     | k ʁ a m e - -    |
| Spanish          | 51-0262728-     | k - e m a r -    |
| Italian          | 513302627330    | k r e m a r e    |
| PortugueseBrazil | 51-602627280    | k - ɐj m a r e   |
| Portuguese       | 51-592627360    | k - ɐj m a ʁ e   |
| Catalan          | 513342627--     | k r ə m a - -    |
| Walloon          |                 |                  |
| Friulian         |                 |                  |
| Romanian         |                 |                  |
| [ ToBurn ]       |                 |                  |
| Latin            | 243227262653330 | f l a m m a: r e |
| French           | 243227-260--    | f l a - m e - -  |
| Spanish          |                 |                  |
| Italian          | 241227262627330 | f j a m m a r e  |
| PortugueseBrazil |                 |                  |
| Portuguese       |                 |                  |
| Catalan          | 246827-2627--   | f ɫ a - m a - -  |
| Walloon          |                 |                  |
| Friulian         | 243227-2653--   | f l a - m a: - - |
| Romanian         |                 |                  |
| [ ToBurn ]       |                 |                  |
| Latin            | 27332325330     | a r d e: r e     |
| French           | 273623-36-      | a ʁ d - ʁ -      |
| Spanish          | 272823028-      | a r d e r -      |
| Italian          | 2733230330      | a r d e r e      |
| PortugueseBrazil | 273623036-      | a ʁ d e ʁ -      |
| Portuguese       | 292823028-      | ɐ r d e r -      |
| Catalan          |                 |                  |
| Walloon          |                 |                  |
| Friulian         |                 |                  |
| Romanian         | 2728230--       | a r d e - -      |
| [ ToBurn ]       |                 |                  |
| Latin            | 24322713353330  | f l a g r a: r e |
| French           | 2432271360--    | f l a g ʁ e - -  |
| Spanish          | 2432271282728-  | f l a g r a r -  |
| Italian          | 24322713327330  | f l a g r a r e  |
| PortugueseBrazil | 2432271362736-  | f l a g ʁ a ʁ -  |
| Portuguese       | 2432271282728-  | f l a g r a r -  |
| Catalan          |                 |                  |
| Walloon          |                 |                  |
| Friulian         |                 |                  |
| Romanian         |                 |                  |



## Appendix 3 - Character File

### [ ToBurn ]

|                  |                    |                      |
|------------------|--------------------|----------------------|
| Latin            | 7135101323-0330    | i n k e n d - e r e  |
| French           | 62-1443-23120--    | ẽ - s ã - d j e - -  |
| Spanish          | 0135801323-028-    | e n θ e n d - e r -  |
| Italian          | 713463113231227330 | i n ʃ ε n d j a r e  |
| PortugueseBrazil | 44-1401310112728-  | ĩ - s e n ɔ̃ r a r - |
| Portuguese       | 44-1464-23122728-  | ĩ - s ẽ - d j a r -  |
| Catalan          | 4131401323--284    | ə n s e n d - - r ə  |
| Walloon          |                    |                      |
| Friulian         |                    |                      |
| Romanian         | 4713467132330--    | i n ʃ i n d ʒ e - -  |

### [ ToBurn ]

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Latin            | 151420153253330 | u s t u l a r e |
| French           |                 |                 |
| Spanish          |                 |                 |
| Italian          | 15142063227330  | u s t o l a r e |
| PortugueseBrazil |                 |                 |
| Portuguese       |                 |                 |
| Catalan          |                 |                 |
| Walloon          |                 |                 |
| Friulian         |                 |                 |
| Romanian         | 151420153327--  | u s t u r a - - |

### [ All ]

|                  |           |            |
|------------------|-----------|------------|
| Latin            | 626132514 | o m n e: s |
| French           |           |            |
| Spanish          |           |            |
| Italian          | 638387-   | o p n i -  |
| PortugueseBrazil |           |            |
| Portuguese       |           |            |
| Catalan          |           |            |
| Walloon          |           |            |
| Friulian         |           |            |
| Romanian         |           |            |

### [ All ]

|                  |            |              |
|------------------|------------|--------------|
| Latin            | 202-201514 | t o: - t u s |
| French           | 2015----   | t u - - - -  |
| Spanish          | 206-236-   | t o - d o -  |
| Italian          | 201520206- | t u t t o -  |
| PortugueseBrazil | 206-2315-  | t o - d u -  |
| Portuguese       | 206-5015-  | t o - ð u -  |
| Catalan          | 206-20--   | t o - t - -  |
| Walloon          | 209----    | t ɔ - - - -  |
| Friulian         | 2315-20--  | d u - t - -  |
| Romanian         | 206-20--   | t o - t - -  |

### [ Many ]

|                  |              |             |
|------------------|--------------|-------------|
| Latin            | 261532201514 | m u l t u s |
| French           | 2615----     | m u - - - - |
| Spanish          | 2615-466-    | m u - ʃ o - |
| Italian          | 26632206-    | m o l t o - |
| PortugueseBrazil | 269092-2015  | m ũ ĩ - t u |
| Portuguese       | 269092-2015  | m ũ ĩ - t u |

## Appendix 3 - Character File

|                  |              |             |
|------------------|--------------|-------------|
| Catalan          | 26632---     | m o l - - - |
| Walloon          |              |             |
| Friulian         | 2663265--    | m o l c - - |
| Romanian         | 26153220--   | m u l t - - |
| [ Many ]         |              |             |
| Latin            | 202713201514 | t a n t u s |
| French           |              |             |
| Spanish          | 202713206-   | t a n t o - |
| Italian          | 202713206-   | t a n t o - |
| PortugueseBrazil | 2045-2015-   | t ã - t u - |
| Portuguese       | 2045-2015-   | t ã - t u - |
| Catalan          | 20271320--   | t a n t - - |
| Walloon          |              |             |
| Friulian         | 20271365--   | t a n c - - |
| Romanian         |              |             |
| [ Some ]         |              |             |
| Latin            |              |             |
| French           | 6-5193--     | o - k œ - - |
| Spanish          | 2732115136   | a l g u n o |
| Italian          | 27325115136  | a l k u n o |
| PortugueseBrazil | 278190--     | a w g ã - - |
| Portuguese       | 2768190--    | a ł g ã - - |
| Catalan          | 432115--     | ə l g u - - |
| Walloon          |              |             |
| Friulian         |              |             |
| Romanian         |              |             |
| [ Few ]          |              |             |
| Latin            | 4878511514   | p a ŭ k u s |
| French           | 4879---      | p ø - - -   |
| Spanish          | 486516-      | p o k o -   |
| Italian          | 489516-      | p ɔ k o -   |
| PortugueseBrazil | 48685115     | p o w k u   |
| Portuguese       | 48685115     | p o w k u   |
| Catalan          | 48951--      | p ɔ k - -   |
| Walloon          | 4861---      | p õ - - -   |
| Friulian         | 48251--      | p o: k - -  |
| Romanian         |              |             |
| [ Other ]        |              |             |
| Latin            | 273220033-   | a l t e r - |
| French           | 6-20-36-     | o - t - ʁ - |
| Spanish          | 6-20-286     | o - t - r o |
| Italian          | 273220-336   | a l t - r o |
| PortugueseBrazil | 6820-2815    | o w t - r u |
| Portuguese       | 6820-2815    | o w t - r u |
| Catalan          | 273220-284   | a l t - r ə |
| Walloon          | 61-20---     | õ - t - - - |
| Friulian         | 273220-337   | a l t - r i |
| Romanian         | 273220---    | a l t - - - |
| [ Other ]        |              |             |
| Latin            | 273271514    | a l i u s   |
| French           |              |             |

## Appendix 3 - Character File

---

|                  |              |                   |
|------------------|--------------|-------------------|
| Spanish          |              |                   |
| Italian          |              |                   |
| PortugueseBrazil | 278---       | a w - - -         |
| Portuguese       | 2768---      | a ł - - -         |
| Catalan          |              |                   |
| Walloon          |              |                   |
| Friulian         |              |                   |
| Romanian         |              |                   |
| [ Big ]          |              |                   |
| Latin            | 26271131514  | m a g n u s       |
| French           |              |                   |
| Spanish          | 2627-386-    | m a - p o -       |
| Italian          | 262738386-   | m a p p o -       |
| PortugueseBrazil |              |                   |
| Portuguese       |              |                   |
| Catalan          |              |                   |
| Walloon          |              |                   |
| Friulian         |              |                   |
| Romanian         |              |                   |
| [ Big ]          |              |                   |
| Latin            | 133271323026 | g r a n d e m     |
| French           | 13643----    | g ʁ ā - - - -     |
| Spanish          | 1282713230-  | g r a n d e -     |
| Italian          | 1332713230-  | g r a n d e -     |
| PortugueseBrazil | 12845-107-   | g r ĩ - d̃ i -    |
| Portuguese       | 12845-2347-  | g r ĩ - d i -     |
| Catalan          | 1332713---   | g r a n - - -     |
| Walloon          | 13643----    | g ʁ ā - - - -     |
| Friulian         | 133271320--  | g r a n t - -     |
| Romanian         |              |                   |
| [ Big ]          |              |                   |
| Latin            | 265612233026 | m a j j o : r e m |
| French           |              |                   |
| Spanish          |              |                   |
| Italian          |              |                   |
| PortugueseBrazil |              |                   |
| Portuguese       |              |                   |
| Catalan          |              |                   |
| Walloon          |              |                   |
| Friulian         |              |                   |
| Romanian         | 2627---280   | m a - - - r e     |
| [ Long ]         |              |                   |
| Latin            | 326-1311514  | l o - n g u s     |
| French           | 3242-----    | l ɔ̃ - - - - -    |
| Spanish          | 326-1316-    | l o - n g o -     |
| Italian          | 3215-1316-   | l u - n g o -     |
| PortugueseBrazil | 3261-115--   | l õ - g u - -     |
| Portuguese       | 3261-115--   | l õ - g u - -     |
| Catalan          | 356-75---    | Á o - ŋ - - -     |
| Walloon          | 3261-----    | l õ - - - - -     |
| Friulian         | 32151351---  | l u n k - - -     |
| Romanian         | 3215131---   | l u n g - - -     |

## Appendix 3 - Character File

---

### [ Long ]

|                  |             |             |
|------------------|-------------|-------------|
| Latin            | 32273311514 | l a r g u s |
| French           | 3227363--   | l a ʁ ʒ - - |
| Spanish          | 322728856-  | l a r ʝ o - |
| Italian          | 32273316-   | l a r g o - |
| PortugueseBrazil | 322736115-  | l a ʁ g u - |
| Portuguese       | 322728115-  | l a r g u - |
| Catalan          | 35272851--  | l a r k - - |
| Walloon          |             |             |
| Friulian         | 32273351--  | l a r k - - |
| Romanian         | 3227331--   | l a r g - - |

### [ Wide ]

|                  |            |           |
|------------------|------------|-----------|
| Latin            | 3253201514 | l a:t u s |
| French           | 320---     | l e - - - |
| Spanish          | 3227206-   | l a t o - |
| Italian          | 3227206-   | l a t o - |
| PortugueseBrazil | 32272015-  | l a t u - |
| Portuguese       | 32272015-  | l a t u - |
| Catalan          |            |           |
| Walloon          |            |           |
| Friulian         |            |           |
| Romanian         | 322720--   | l a t - - |

### [ Wide ]

|                  |              |             |
|------------------|--------------|-------------|
| Latin            | 272648321514 | a m p l u s |
| French           | 43-4832--    | ã - p l - - |
| Spanish          | 271346-6-    | a n ʎ - o - |
| Italian          | 272648126-   | a m p j o - |
| PortugueseBrazil | 45-16-15-    | ẽ - ʃ - u - |
| Portuguese       | 45-16-15-    | ẽ - ʃ - u - |
| Catalan          | 272648324-   | a m p l ə - |
| Walloon          |              |             |
| Friulian         |              |             |
| Romanian         |              |             |

### [ Thick ]

|                  |                |               |
|------------------|----------------|---------------|
| Latin            | 51332714141514 | k r a s s u s |
| French           | 13684----      | g ʁ a - - - - |
| Spanish          | 12827-146-     | g r a - s o - |
| Italian          | 1332714146-    | g r a s s o - |
| PortugueseBrazil |                |               |
| Portuguese       | 12827-1615-    | g r a - ʃ u - |
| Catalan          | 12827-14--     | g r a - s - - |
| Walloon          |                |               |
| Friulian         | 1332714---     | g r a s - - - |
| Romanian         | 1332714---     | g r a s - - - |

### [ Thick ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | -1448714141514 | - s p i s s u s |
| French           | 0-480----      | e - p e - - - - |
| Spanish          | 014480146--    | e s p e s o - - |
| Italian          | -1448014146-   | - s p e s s o - |
| PortugueseBrazil | 7144831-1415-  | i s p e - s u - |
| Portuguese       | 716480-1415-   | i ʃ p e - s u - |

### Appendix 3 - Character File

|                  |                |                 |
|------------------|----------------|-----------------|
| Catalan          | 4144831-14--   | ə s p ɛ - s - - |
| Walloon          | -144831----    | - s p ɛ - - - - |
| Friulian         |                |                 |
| Romanian         |                |                 |
| [ Thick ]        |                |                 |
| Latin            | 11533231514    | g u r d u s     |
| French           |                |                 |
| Spanish          | 1628236-       | g o r d o -     |
| Italian          |                |                 |
| PortugueseBrazil |                |                 |
| Portuguese       |                |                 |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |
| [ Thick ]        |                |                 |
| Latin            | 1336-14141514  | g r o - s s u s |
| French           | 1366-----      | g ʁ o - - - -   |
| Spanish          |                |                 |
| Italian          | 1339-14146-    | g r ɔ - s s o - |
| PortugueseBrazil | 1286-1415--    | g r o - s u - - |
| Portuguese       | 1286-1415--    | g r o - s u - - |
| Catalan          | 1289-14---     | g r ɔ - s - - - |
| Walloon          |                |                 |
| Friulian         | 13383114---    | g r w ɛ s - - - |
| Romanian         | 1336-14---     | g r o - s - - - |
| [ Heavy ]        |                |                 |
| Latin            | 13327--8714    | g r a - - w i s |
| French           | 1367123124--   | g ʁ i j ɛ f - - |
| Spanish          | 12827--190-    | g r a - - b e - |
| Italian          | 13331--180-    | g r ɛ - - v e - |
| PortugueseBrazil | 12827--187-    | g r a - - v i - |
| Portuguese       | 12827--1847-   | g r a - - v i - |
| Catalan          | 1280--8--      | g r e - - w - - |
| Walloon          | 13327--18--    | g r a - - v - - |
| Friulian         | 13331--187-    | g r ɛ - - v i - |
| Romanian         | 1280--8--      | g r e - - w - - |
| [ Heavy ]        |                |                 |
| Latin            | 321533231514   | l u r d u s     |
| French           | 321536---      | l u ʁ - - -     |
| Spanish          | 32028236-      | l e r d o -     |
| Italian          | 32633236-      | l o r d o -     |
| PortugueseBrazil | 32028236-      | l e r d o -     |
| Portuguese       | 32028236-      | l e r d o -     |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |
| [ Small ]        |                |                 |
| Latin            | 48720207201514 | p i t t i t u s |
| French           | 484-207---     | p ə - t i - - - |

## Appendix 3 - Character File

|                  |                |                   |
|------------------|----------------|-------------------|
| Spanish          |                |                   |
| Italian          |                |                   |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          | 48420720---    | p ə t i t - - -   |
| Walloon          | 487-207---     | p i - t i - - -   |
| Friulian         |                |                   |
| Romanian         |                |                   |
| [ Small ]        |                |                   |
| Latin            | 48720207131514 | p i t t i n u s   |
| French           |                |                   |
| Spanish          | 480-510386-    | p e - k e p o -   |
| Italian          | 48720467136-   | p i t t i n o -   |
| PortugueseBrazil | 480-5101315-   | p e - k e n u -   |
| Portuguese       | 4847-5101315-  | p i - k e n u -   |
| Catalan          |                |                   |
| Walloon          |                |                   |
| Friulian         |                |                   |
| Romanian         | 4815-52713--   | p u - t s i n - - |
| [ Small ]        |                |                   |
| Latin            | 487-2015321514 | p i - t u l u s   |
| French           |                |                   |
| Spanish          |                |                   |
| Italian          | 48751516326-   | p i k k o l o -   |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          |                |                   |
| Walloon          |                |                   |
| Friulian         | 487-461532--   | p i - t u l - -   |
| Romanian         |                |                   |
| [ Short ]        |                |                   |
| Latin            | 511533201514   | k u r t u s       |
| French           | 511536---      | k u r - - -       |
| Spanish          | 51628206-      | k o r t o -       |
| Italian          | 51633206-      | k o r t o -       |
| PortugueseBrazil | 5115362015-    | k u r t u -       |
| Portuguese       | 5115282015-    | k u r t u -       |
| Catalan          | 51152820--     | k u r t - -       |
| Walloon          | 512136---      | k u r - - -       |
| Friulian         | 51153320--     | k u r t - -       |
| Romanian         |                |                   |
| [ Short ]        |                |                   |
| Latin            | 193308714      | b r e w i s       |
| French           | 19363124--     | b r e f - -       |
| Spanish          | 19280190-      | b r e b e -       |
| Italian          | 193331180-     | b r e v e -       |
| PortugueseBrazil | 192831187-     | b r e v i -       |
| Portuguese       | 1928311847-    | b r e v i -       |
| Catalan          | 192808--       | b r e w - -       |
| Walloon          | 1936024--      | b r e f - -       |
| Friulian         |                |                   |
| Romanian         |                |                   |

## Appendix 3 - Character File

### [ Narrow ]

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Latin            | 271311514201514 | a n g u s t u s |
| French           |                 |                 |
| Spanish          | 27131614206-    | a n g o s t o - |
| Italian          | 271311514206-   | a n g u s t o - |
| PortugueseBrazil |                 |                 |
| Portuguese       |                 |                 |
| Catalan          |                 |                 |
| Walloon          |                 |                 |
| Friulian         |                 |                 |
| Romanian         | 47751151420--   | i ŋ g u s t - - |

### [ Narrow ]

|                  |                    |                        |
|------------------|--------------------|------------------------|
| Latin            | -142033-7-51201514 | - s t r - i - k t u s  |
| French           | 0-2036827-----     | e - t ʁ w a - - - -    |
| Spanish          | 0142028-0--466-    | e s t r - e - - ʃ o -  |
| Italian          | -142033-0-20206-   | - s t r - e - t t o -  |
| PortugueseBrazil | 7142028-59--2015-  | i s t r - ej - - t u - |
| Portuguese       | 47162028-60--2015- | i ʃ t r - vj - - t u - |
| Catalan          | 4142028-31--20--   | ə s t r - ε - - t - -  |
| Walloon          | -142036-72-----    | - s t ʁ - ø: - - - -   |
| Friulian         | -142033-31--20--   | - s t r - ε - - t - -  |
| Romanian         | -142033-4726-20--  | - s t r - i m - t - -  |

### [ Thin ]

|                  |                |                  |
|------------------|----------------|------------------|
| Latin            | 2671321-201514 | m i n u: - t u s |
| French           | 2641322----    | m ə n y - - - -  |
| Spanish          | 2601315-236-   | m e n u - d o -  |
| Italian          | 2671315-206-   | m i n u - t o -  |
| PortugueseBrazil | 267-15-2315-   | m i - u - d u -  |
| Portuguese       | 267-15-5015-   | m i - u - ð u -  |
| Catalan          | 2641315-20--   | m ə n u - t - -  |
| Walloon          | 2671315----    | m i n u - - - -  |
| Friulian         | 2671321-20--   | m i n u: - t - - |
| Romanian         | 26433151320--  | m ə r u n t - -  |

### [ Thin ]

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Latin            | 23253275153201514 | d e: l i k a: t u s |
| French           | 2321--325---      | d u: - - ʒ e: - - - |
| Spanish          | 23032-8527506-    | d e l - ɣ a ð o -   |
| Italian          | 2303275127206-    | d e l i k a t o -   |
| PortugueseBrazil | 2308-1272315-     | d e w - g a d u -   |
| Portuguese       | 233168-85275015-  | d ε ł - ɣ a ð u -   |
| Catalan          | 234327512720--    | d ə l i k a t - -   |
| Walloon          |                   |                     |
| Friulian         |                   |                     |
| Romanian         |                   |                     |

### [ Thin ]

|                  |                 |                  |
|------------------|-----------------|------------------|
| Latin            | 141519203732026 | s u b t i: l e m |
| French           |                 |                  |
| Spanish          | 1415-20732--    | s u - t i l - -  |
| Italian          | 14620207320-    | s o t t i l e -  |
| PortugueseBrazil | 1415-4678--     | s u - ʃ i w - -  |
| Portuguese       | 1415-4678--     | s u - ʃ i w - -  |

## Appendix 3 - Character File

|                  |                 |                     |
|------------------|-----------------|---------------------|
| Catalan          | 14154820732--   | s u p t i l - -     |
| Walloon          | 1421-207---     | s u : - t i - - -   |
| Friulian         | 1415-203732--   | s u - t i : l - -   |
| Romanian         | 141519527330-   | s u b t s i r e -   |
| [ Warm ]         |                 |                     |
| Latin            | 5127327231514   | k a l i d u s       |
| French           | 166-----        | f o - - - - -       |
| Spanish          | 512732-236-     | k a l - d o -       |
| Italian          | 512732-236-     | k a l - d o -       |
| PortugueseBrazil | 51278--2315     | k a w - - d u       |
| Portuguese       | 512732-2315-    | k a l - d u -       |
| Catalan          | 512768----      | k a ł - - - -       |
| Walloon          | 4661-----       | ʃ ò - - - - -       |
| Friulian         | 652732-20--     | c a l - t - -       |
| Romanian         | 512732-23--     | k a l - d - -       |
| [ Cold ]         |                 |                     |
| Latin            | 2433-3717231514 | f r - i : g i d u s |
| French           | 2436827-----    | f ʁ w a - - - - -   |
| Spanish          | 2428-7---6-     | f r - i - - - o -   |
| Italian          | 2433-023-236-   | f r - e d - d o -   |
| PortugueseBrazil | 2428-7---15-    | f r - i - - - u -   |
| Portuguese       | 2428-7---15-    | f r - i - - - u -   |
| Catalan          | 2428-31--20--   | f r - ε - - t - -   |
| Walloon          | 2455831-----    | f ʁ w ε - - - - -   |
| Friulian         | 2433-25--20--   | f r - e : - - t - - |
| Romanian         |                 |                     |
| [ Cold ]         |                 |                     |
| Latin            | 33051-01320026  | r e k - e n t e m   |
| French           |                 |                     |
| Spanish          | 3305812013200-  | r e θ j e n t e -   |
| Italian          | 33046-3113200-  | r e ʃ - ε n t e -   |
| PortugueseBrazil | 36014-64-467-   | ʁ e s - ě - ʃ i -   |
| Portuguese       | 36014-64-467-   | ʁ e s - ě - ʃ i -   |
| Catalan          |                 |                     |
| Walloon          |                 |                     |
| Friulian         | 33052-71320--   | r e t s - i n t - - |
| Romanian         | 33046-0----     | r e ʃ - e - - - -   |
| [ Full ]         |                 |                     |
| Latin            | 483225131514    | p l e : n u s       |
| French           | 483262---       | p l ě - - -         |
| Spanish          | -350136-        | - ʎ e n o -         |
| Italian          | 481257136-      | p j ε : n o -       |
| PortugueseBrazil | 16-60-15-       | ʃ - e j - u -       |
| Portuguese       | 16-60-15-       | ʃ - e j - u -       |
| Catalan          | 486831---       | p ł ε - - -         |
| Walloon          | 483264---       | p l ě - - -         |
| Friulian         | 48323113--      | p l ε n - -         |
| Romanian         | 4832713--       | p l i n - -         |
| [ New ]          |                 |                     |
| Latin            | 13-681514       | n - o w u s         |
| French           | 13-15186-       | n - u v o -         |



## Appendix 3 - Character File

|                  |                 |                  |
|------------------|-----------------|------------------|
| Spanish          | 1380676-        | n w e ß o -      |
| Italian          | 13-9186-        | n - ɔ v o -      |
| PortugueseBrazil | 13-61815-       | n - o v u -      |
| Portuguese       | 13-61815-       | n - o v u -      |
| Catalan          | 13-98--         | n - ɔ w - -      |
| Walloon          | 13-91831-       | n - ɔ v ε -      |
| Friulian         | 38-2124--       | ɲ - u: f - -     |
| Romanian         | 13-68--         | n - o w - -      |
| [ Old ]          |                 |                  |
| Latin            | 8-02015321514   | w - e t u l u s  |
| French           | 181279-----     | v j ø - - - -    |
| Spanish          | 19120346---     | b j e x o - - -  |
| Italian          | 18-3151-51126   | v - ε k - k j o  |
| PortugueseBrazil | 18-60--3515-    | v - ɐj - - ʎ u - |
| Portuguese       | 18-0--3515-     | v - e - - ʎ u -  |
| Catalan          | 18-0--35--      | v - e - - ʎ - -  |
| Walloon          | 1837-----       | v i: - - - - -   |
| Friulian         | 18120---7-      | v j e - - - i -  |
| Romanian         | 18-081----      | v - e kʲ - - - - |
| [ Good ]         |                 |                  |
| Latin            | 19-6131514      | b - o n u s      |
| French           | 19-61---        | b - ð - - -      |
| Spanish          | 1980136-        | b w e n o -      |
| Italian          | 19873136-       | b w ɔ: n o -     |
| PortugueseBrazil | 19-61---        | b - ð - - -      |
| Portuguese       | 19-61---        | b - ð - - -      |
| Catalan          | 19-913--        | b - ɔ n - -      |
| Walloon          | 19-61---        | b - ð - - -      |
| Friulian         | 19-913--        | b - ɔ n - -      |
| Romanian         | 19-1513--       | b - u n - -      |
| [ Bad ]          |                 |                  |
| Latin            | 2627321514      | m a l u s        |
| French           | 262732--        | m a l - -        |
| Spanish          | 2627326-        | m a l o -        |
| Italian          | 2627326-        | m a l o -        |
| PortugueseBrazil | 26278--         | m a w - -        |
| Portuguese       | 26278--         | m a w - -        |
| Catalan          | 262732--        | m a l - -        |
| Walloon          | 2673---         | m ɔ: - - -       |
| Friulian         | 265332--        | m a: l - -       |
| Romanian         |                 |                  |
| [ Rotten ]       |                 |                  |
| Latin            | 481520337231514 | p u t r i d u s  |
| French           |                 |                  |
| Spanish          | 48650287506-    | p o ð r i ð o -  |
| Italian          | 481520337236-   | p u t r i d o -  |
| PortugueseBrazil |                 |                  |
| Portuguese       |                 |                  |
| Catalan          | 48155028720--   | p u ð r i t - -  |
| Walloon          |                 |                  |
| Friulian         |                 |                  |
| Romanian         | 48152033023--   | p u t r e d - -  |

## Appendix 3 - Character File

---

### [ Rotten ]

|                  |             |             |
|------------------|-------------|-------------|
| Latin            | 48152033026 | p u t r e m |
| French           |             |             |
| Spanish          | 48650280-   | p o ð r e - |
| Italian          |             |             |
| PortugueseBrazil | 48623287-   | p o d r i - |
| Portuguese       | 486502847-  | p o ð r i - |
| Catalan          |             |             |
| Walloon          |             |             |
| Friulian         |             |             |
| Romanian         |             |             |

### [ Dirty ]

|                  |                |                 |
|------------------|----------------|-----------------|
| Latin            | 14633237231514 | s o r d i d u s |
| French           |                |                 |
| Spanish          | 14628237236-   | s o r d i d o - |
| Italian          | 14933237236-   | s o r d i d o - |
| PortugueseBrazil | 149282372315-  | s o r d i d u - |
| Portuguese       | 149282372315-  | s o r d i d u - |
| Catalan          |                |                 |
| Walloon          |                |                 |
| Friulian         |                |                 |
| Romanian         |                |                 |

### [ Dirty ]

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Latin            | -14481533651514 | - s p u r c u s |
| French           |                 |                 |
| Spanish          |                 |                 |
| Italian          | -1448933516-    | - s p o r k o - |
| PortugueseBrazil | 7144815285115-  | i s p u r k u - |
| Portuguese       | 7164815285115-  | i f p u r k u - |
| Catalan          |                 |                 |
| Walloon          |                 |                 |
| Friulian         | -144893351--    | - s p o r k - - |
| Romanian         | -1448153351--   | - s p u r k - - |

### [ Straight ]

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Latin            | 233733-2551201514 | d i r - e : k t u s |
| French           | 23-36827----      | d - w a - - - -     |
| Spanish          |                   |                     |
| Italian          | 23-33-720206-     | d - r - i t t o -   |
| PortugueseBrazil | 10728-59-2015-    | d i r - e j - t u - |
| Portuguese       | 23728-60-2015-    | d i r - e j - t u - |
| Catalan          | 23-28-31-20--     | d - r - e - t - -   |
| Walloon          | 23-33-72----      | d - r - ø : - - - - |
| Friulian         | 23-33-31-20--     | d - r - e - t - -   |
| Romanian         | 23-33-04820--     | d - r - e p t - -   |

### [ Round ]

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Latin            | 336201513231514 | r o t u n d u s |
| French           | 3661-----       | r o - - - - -   |
| Spanish          | 33023613236-    | r e d o n d o - |
| Italian          | 33720613236-    | r i t o n d o - |
| PortugueseBrazil | 3602361-2315-   | r e d o - d u - |
| Portuguese       | 36472361-2315-  | r i d o - d u - |

## Appendix 3 - Character File

---

|                   |               |                  |
|-------------------|---------------|------------------|
| Catalan           | 334236----    | r ə d o - - - -  |
| Walloon           | 3361-----     | r õ - - - - - -  |
| Friulian          | 20273391320-- | t a r ɔ̃ n t - - |
| Romanian          | 33420151323-- | r ə t u n d - -  |
| [ SharpAsAKnife ] |               |                  |
| Latin             | 275121201514  | a k uː t u s     |
| French            |               |                  |
| Spanish           | 278515506-    | a γ u ð o -      |
| Italian           |               |                  |
| PortugueseBrazil  |               |                  |
| Portuguese        | 2985155015-   | e γ u ð u -      |
| Catalan           | 411520--      | ə γ u t - -      |
| Walloon           |               |                  |
| Friulian          |               |                  |
| Romanian          |               |                  |
| [ DullAsAKnife ]  |               |                  |
| Latin             | 40019020026   | h e b e t e m    |
| French            |               |                  |
| Spanish           |               |                  |
| Italian           | 31190200--    | ε b e t e - -    |
| PortugueseBrazil  |               |                  |
| Portuguese        |               |                  |
| Catalan           |               |                  |
| Walloon           |               |                  |
| Friulian          |               |                  |
| Romanian          |               |                  |
| [ DullAsAKnife ]  |               |                  |
| Latin             | 3302021141514 | r e t uː s u s   |
| French            |               |                  |
| Spanish           |               |                  |
| Italian           | 3302015496-   | r e t u z o -    |
| PortugueseBrazil  |               |                  |
| Portuguese        |               |                  |
| Catalan           |               |                  |
| Walloon           |               |                  |
| Friulian          |               |                  |
| Romanian          |               |                  |
| [ Smooth ]        |               |                  |
| Latin             | 1415538026    | s u aː w e m     |
| French            |               |                  |
| Spanish           |               |                  |
| Italian           | 14627180-     | s o a v e -      |
| PortugueseBrazil  |               |                  |
| Portuguese        |               |                  |
| Catalan           | 1415278--     | s u a w - -      |
| Walloon           |               |                  |
| Friulian          |               |                  |
| Romanian          |               |                  |
| [ Smooth ]        |               |                  |
| Latin             | 137207231514  | n i t i d u s    |
| French            | 133120----    | n ε t - - - -    |

## Appendix 3 - Character File

|                  |                   |                    |
|------------------|-------------------|--------------------|
| Spanish          | 137507-6-         | n i ð i - o -      |
| Italian          | 13020-206-        | n e t - t o -      |
| PortugueseBrazil | 13311015---       | n ε ð u - - -      |
| Portuguese       | 13311015---       | n ε ð u - - -      |
| Catalan          | 133120----        | n ε t - - - -      |
| Walloon          |                   |                    |
| Friulian         | 133120----        | n ε t - - - -      |
| Romanian         | 13020023--        | n e t e d - -      |
| [ Wet ]          |                   |                    |
| Latin            | 21267231514       | u: m i d u s       |
| French           |                   |                    |
| Spanish          |                   |                    |
| Italian          | 15267236-         | u m i d o -        |
| PortugueseBrazil |                   |                    |
| Portuguese       |                   |                    |
| Catalan          |                   |                    |
| Walloon          |                   |                    |
| Friulian         | 1526723--         | u m i d - -        |
| Romanian         | 1526023--         | u m e d - -        |
| [ Wet ]          |                   |                    |
| Latin            | 21231514          | u: d u s           |
| French           |                   |                    |
| Spanish          |                   |                    |
| Italian          |                   |                    |
| PortugueseBrazil |                   |                    |
| Portuguese       |                   |                    |
| Catalan          |                   |                    |
| Walloon          |                   |                    |
| Friulian         |                   |                    |
| Romanian         | 1523--            | u d - -            |
| [ Dry ]          |                   |                    |
| Latin            | 14751511514       | s i k k u s        |
| French           | 1431-51--         | s ε - k - -        |
| Spanish          | 140-516-          | s e - k o -        |
| Italian          | 14051516-         | s e k k o -        |
| PortugueseBrazil | 140-5115-         | s e - k u -        |
| Portuguese       | 140-5115-         | s e - k u -        |
| Catalan          | 143151---         | s ε k - - -        |
| Walloon          | 143146---         | s ε ʃ - - -        |
| Friulian         | 1431-51--         | s ε - k - -        |
| Romanian         | 14051---          | s e k - - -        |
| [ Correct ]      |                   |                    |
| Latin            | 51633332551201514 | k o r r e: k t u s |
| French           |                   |                    |
| Spanish          |                   |                    |
| Italian          | 5163333020206-    | k o r r e t t o -  |
| PortugueseBrazil |                   |                    |
| Portuguese       |                   |                    |
| Catalan          |                   |                    |
| Walloon          |                   |                    |
| Friulian         |                   |                    |
| Romanian         |                   |                    |

## Appendix 3 - Character File

### [ Near ]

|                  |                    |                       |
|------------------|--------------------|-----------------------|
| Latin            | 4833651147--261514 | p r o k s i - - m u s |
| French           |                    |                       |
| Spanish          | 4828634-7--266-    | p r o x - i - - m o - |
| Italian          | 4833914147--266-   | p r o s s i - - m o - |
| PortugueseBrazil | 48286147--2615--   | p r o s i - - m u - - |
| Portuguese       | 48286147--2615--   | p r o s i - - m u - - |
| Catalan          | 48286---749260-    | p r o - - i z m e -   |
| Walloon          |                    |                       |
| Friulian         | 48336-147--26--    | p r o - s i - - m - - |
| Romanian         |                    |                       |

### [ Near ]

|                  |                |                   |
|------------------|----------------|-------------------|
| Latin            | 27234833648330 | a d p r o p r e   |
| French           |                |                   |
| Spanish          |                |                   |
| Italian          |                |                   |
| PortugueseBrazil |                |                   |
| Portuguese       |                |                   |
| Catalan          | 4-4828948--    | ə - p r o p - -   |
| Walloon          |                |                   |
| Friulian         |                |                   |
| Romanian         | 27-48333948-0  | a - p r o a p - e |

### [ Near ]

|                  |               |               |
|------------------|---------------|---------------|
| Latin            | 4833014141514 | p r e s s u s |
| French           | 48360----     | p x e - - - - |
| Spanish          |               |               |
| Italian          | 48333114146-  | p r e s s o - |
| PortugueseBrazil |               |               |
| Portuguese       |               |               |
| Catalan          |               |               |
| Walloon          | 483331----    | p r e - - - - |
| Friulian         |               |               |
| Romanian         |               |               |

### [ Near ]

|                  |                |                     |
|------------------|----------------|---------------------|
| Latin            | 8-375137131514 | w - i : k i : n u s |
| French           | 188274962---   | v w a z ê - - -     |
| Spanish          | 19-0587136-    | b - e θ i n o -     |
| Italian          | 18-7467136-    | v - i ʃ i n o -     |
| PortugueseBrazil | 18-74973815-   | v - i z i ɲ u -     |
| Portuguese       | 18-74973815-   | v - i z i ɲ u -     |
| Catalan          | 19-4-7---      | b - ə - i - - -     |
| Walloon          | 18-7364---     | v - i ʒ ê - - -     |
| Friulian         | 18-746713--    | v - i ʃ i n - -     |
| Romanian         | 18-046713--    | v - e ʃ i n - -     |

### [ Near ]

|                  |           |           |
|------------------|-----------|-----------|
| Latin            | 517335127 | k i r k a |
| French           | 580285127 | θ e r k a |
| Spanish          |           |           |
| Italian          |           |           |
| PortugueseBrazil |           |           |
| Portuguese       |           |           |

## Appendix 3 - Character File

Catalan  
Walloon  
Friulian  
Romanian

### [ Far ]

|                  |               |                 |
|------------------|---------------|-----------------|
| Latin            |               |                 |
| French           | 32862-2062--  | l w ě - t ě - - |
| Spanish          |               |                 |
| Italian          | 32-6132027136 | l - o n t a n o |
| PortugueseBrazil |               |                 |
| Portuguese       |               |                 |
| Catalan          | 35-15132027-- | l - u n t a - - |
| Walloon          |               |                 |
| Friulian         | 32-613202713- | l - o n t a n - |
| Romanian         |               |                 |

### [ Right ]

|                  |                  |                   |
|------------------|------------------|-------------------|
| Latin            | 23-0511420331526 | d - e k s t r u m |
| French           |                  |                   |
| Spanish          | 23120-1420286-   | d j e - s t r o - |
| Italian          | 23-31-1420336-   | d - ε - s t r o - |
| PortugueseBrazil | 23-31-14202815-  | d - ε - s t r u - |
| Portuguese       | 23-31-16202815-  | d - ε - ∫ t r u - |
| Catalan          | 23-0-1420284-    | d - e - s t r ə - |
| Walloon          |                  |                   |
| Friulian         | 23120-1420337-   | d j e - s t r i - |
| Romanian         |                  |                   |

### [ Left ]

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Latin            | 14713-71420331526 | s i n - i s t r u m |
| French           | 14413-31142036--  | s ə n - ε s t ʁ - - |
| Spanish          | 147131201420286-  | s i n j e s t r o - |
| Italian          | 14713-01420336-   | s i n - e s t r o - |
| PortugueseBrazil | 14---3116202815-  | s - - - ε ∫ t r u - |
| Portuguese       | 14---3116202815-  | s - - - ε ∫ t r u - |
| Catalan          |                   |                     |
| Walloon          |                   |                     |
| Friulian         | 14738-01420337-   | s i ɲ - e s t r i - |
| Romanian         |                   |                     |

### [ Red ]

|                  |              |             |
|------------------|--------------|-------------|
| Latin            | 331514141514 | r u s s u s |
| French           | 3615----     | ʁ u - - -   |
| Spanish          | 336-346-     | r o - x o - |
| Italian          | 33614146-    | r o s s o - |
| PortugueseBrazil | 366-1694-    | ʁ o - ∫ ʊ - |
| Portuguese       | 366-1615-    | ʁ o - ∫ u - |
| Catalan          | 336-14--     | r o - s - - |
| Walloon          |              |             |
| Friulian         | 339-14--     | r ɔ - s - - |
| Romanian         | 286-1615-    | r o - ∫ u - |

### [ Red ]

|        |                    |                     |
|--------|--------------------|---------------------|
| Latin  | 180332675115321514 | v e r m i k u l u s |
| French | 1831362686-----    | v ɛ ʁ m ɛ j - - - - |

## Appendix 3 - Character File

---

|                  |                   |                      |
|------------------|-------------------|----------------------|
| Spanish          | 19028260346---    | b e r m e x o - - -  |
| Italian          | 1803326735-356-   | v e r m i ʎ - ʎ o -  |
| PortugueseBrazil | 18036260--3515-   | v e ʁ m e - - ʎ u -  |
| Portuguese       | 1847282660--3515- | v i r m əj - - ʎ u - |
| Catalan          | 194332631--35--   | b ə r m ε - - ʎ - -  |
| Walloon          |                   |                      |
| Friulian         |                   |                      |
| Romanian         |                   |                      |
| [ Red ]          |                   |                      |
| Latin            | 3315-1901514      | r u - b e u s        |
| French           | 3615-3---         | ʁ u - ʒ - - -        |
| Spanish          | 3315-19126-       | r u - b j o -        |
| Italian          | 3391919126-       | r ɔ b b j o -        |
| PortugueseBrazil | 3315-1906-        | r u - b e o -        |
| Portuguese       | 3315-1906-        | r u - b e o -        |
| Catalan          | 3315-100--        | r u - dʒ e - -       |
| Walloon          | 339-46---         | r ɔ - ʃ - - -        |
| Friulian         |                   |                      |
| Romanian         | 3317-19---        | r oj - b - - -       |
| [ Green ]        |                   |                      |
| Latin            | 8733723026        | w i r i d e m        |
| French           | 18036----         | v e ʁ - - - -        |
| Spanish          | 19028-230-        | b e r - d e -        |
| Italian          | 18033-230-        | v e r - d e -        |
| PortugueseBrazil | 18028-2347-       | v e r - d i -        |
| Portuguese       | 18028-2347-       | v e r - d i -        |
| Catalan          | 183128-20--       | v ε r - t - -        |
| Walloon          | 183136----        | v ε ʁ - - - -        |
| Friulian         | 183133-20--       | v ε r - t - -        |
| Romanian         | 18028-230-        | v e r - d e -        |
| [ Yellow ]       |                   |                      |
| Latin            | 12732197131514    | g a l b i n u s      |
| French           | 36---13--         | ʒ o - - - n - -      |
| Spanish          |                   |                      |
| Italian          |                   |                      |
| PortugueseBrazil |                   |                      |
| Portuguese       |                   |                      |
| Catalan          |                   |                      |
| Walloon          | 1031---13--       | dʒ ε - - - n - -     |
| Friulian         |                   |                      |
| Romanian         | 1273219013--      | g a l b e n - -      |
| [ Yellow ]       |                   |                      |
| Latin            | 27262733032321514 | a m a r e l l u s    |
| French           |                   |                      |
| Spanish          | 272627287-56-     | a m a r i - j o -    |
| Italian          |                   |                      |
| PortugueseBrazil | 2926272831-3215-  | ɐ m a r ε - l u -    |
| Portuguese       | 2926292831-3215-  | ɐ m ɐ r ε - l u -    |
| Catalan          |                   |                      |
| Walloon          |                   |                      |
| Friulian         |                   |                      |
| Romanian         |                   |                      |

## Appendix 3 - Character File

---

### [ Yellow ]

|                  |              |                 |
|------------------|--------------|-----------------|
| Latin            | 513365101514 | k r o k e u s   |
| French           |              |                 |
| Spanish          |              |                 |
| Italian          | 513364606-   | k r o t f e o - |
| PortugueseBrazil |              |                 |
| Portuguese       |              |                 |
| Catalan          | 128951---    | g r o k - - -   |
| Walloon          |              |                 |
| Friulian         |              |                 |
| Romanian         |              |                 |

### [ White ]

|                  |            |           |
|------------------|------------|-----------|
| Latin            | 2732191514 | a l b u s |
| French           |            |           |
| Spanish          | 2732196-   | a l b o - |
| Italian          | 2732196-   | a l b o - |
| PortugueseBrazil | 2781815-   | a w v u - |
| Portuguese       | 27321815-  | a l v u - |
| Catalan          | 273219--   | a l b - - |
| Walloon          |            |           |
| Friulian         |            |           |
| Romanian         | 273219--   | a l b - - |

### [ One ]

|                  |          |          |
|------------------|----------|----------|
| Latin            | 21131526 | u: n u m |
| French           | 93---    | œ - -    |
| Spanish          | 15136-   | u n o -  |
| Italian          | 15136-   | u n o -  |
| PortugueseBrazil | 90---    | ũ - - -  |
| Portuguese       | 90---    | ũ - - -  |
| Catalan          | 1513--   | u n - -  |
| Walloon          | 61---    | ô - - -  |
| Friulian         | 1575--   | u ŋ - -  |
| Romanian         | 151315-  | u n u -  |

### [ Two ]

|                  |         |           |
|------------------|---------|-----------|
| Latin            | 2315214 | d u o: s  |
| French           | 23-79-  | d - ø -   |
| Spanish          | 23-614  | d - o s   |
| Italian          |         |           |
| PortugueseBrazil | 23-1714 | d - o j s |
| Portuguese       | 23-1716 | d - o j f |
| Catalan          | 23-614  | d - o s   |
| Walloon          | 23-72-  | d - ø: -  |
| Friulian         | 23-17-  | d - o j - |
| Romanian         | 23-17-  | d - o j - |

### [ Two ]

|                  |         |           |
|------------------|---------|-----------|
| Latin            | 2315-56 | d u - a j |
| French           |         |           |
| Spanish          |         |           |
| Italian          | 2315-0  | d u - e   |
| PortugueseBrazil |         |           |
| Portuguese       |         |           |



## Appendix 3 - Character File

|                  |                  |  |
|------------------|------------------|--|
| Catalan          |                  |  |
| Walloon          |                  |  |
| Friulian         |                  |  |
| Romanian         | 23684            | d o w ə                                |
| [ Two ]          |                  |  |
| Latin            | 23152714         | d u a s                                |
| French           |                  |  |
| Spanish          |                  |  |
| Italian          |                  |  |
| PortugueseBrazil | 23152914         | d u ɐ s                                |
| Portuguese       | 23152916         | d u ɐ ʃ                                |
| Catalan          |                  |  |
| Walloon          |                  |  |
| Friulian         |                  |  |
| Romanian         |                  |  |
| [ Three ]        |                  |  |
| Latin            | 2033-2514        | t r - e: s                             |
| French           | 2036884-         | t ʁ w ɑ -                              |
| Spanish          | 2028-014         | t r - e s                              |
| Italian          | 2033-0-          | t r - e -                              |
| PortugueseBrazil | 2028-014         | t r - e s                              |
| Portuguese       | 2028-016         | t r - e ʃ                              |
| Catalan          | 2033-3114        | t r - ɛ s                              |
| Walloon          | 2033-72-         | t r - ø: -                             |
| Friulian         | 2033-25-         | t r - e: -                             |
| Romanian         | 2033-59-         | t r - ej -                             |
| [ Four ]         |                  |  |
| Latin            | 87-2720208633-   | k <sup>w</sup> - a t t w o r -         |
| French           | 51-27-20--36-    | k - a - t - - ʁ -                      |
| Spanish          | 51827-20--286    | k w a - t - - r o                      |
| Italian          | 518272020--336   | k w a t t - - r o                      |
| PortugueseBrazil | 51827-20--2815   | k w a - t - - r u                      |
| Portuguese       | 51827-20--2815   | k w a - t - - r u                      |
| Catalan          | 51827-20--284    | k w a - t - - r ə                      |
| Walloon          | 51827-20----     | k w a - t - - -                        |
| Friulian         | 51827-20--337    | k w a - t - - r i                      |
| Romanian         | 48-27-20--3315   | p - a - t - - r u                      |
| [ Five ]         |                  |  |
| Latin            | 87371387-0       | k <sup>w</sup> i: n k <sup>w</sup> - e |
| French           | 1464-51--        | s ẽ - k - -                            |
| Spanish          | 5871351-6        | θ i n k - o                            |
| Italian          | 467755180        | ʃ i ŋ k w e                            |
| PortugueseBrazil | 1444-51-15       | s i - k - u                            |
| Portuguese       | 1444-51-15       | s i - k - u                            |
| Catalan          | 1477551--        | s i ŋ k - -                            |
| Walloon          | 1464-51--        | s ẽ - k - -                            |
| Friulian         | 4677551--        | ʃ i ŋ k - -                            |
| Romanian         | 4671346--        | ʃ i n ʃ - -                            |
| [ Here ]         |                  |  |
| Latin            | -051511526403751 | - e k k u m h i: k                     |
| French           | 7--14--7-        | i - - s - - - i -                      |

## Appendix 3 - Character File

|                  |             |                   |
|------------------|-------------|-------------------|
| Spanish          | -27-51---7- | - a - k - - - i - |
| Italian          | ---518--7-  | - - - k w - - i - |
| PortugueseBrazil | -27-51---7- | - a - k - - - i - |
| Portuguese       | -29-51---7- | - ɐ - k - - - i - |
| Catalan          | -27-51---7- | - a - k - - - i - |
| Walloon          |             |                   |
| Friulian         | -27-51---7- | - a - k - - - i - |
| Romanian         |             |                   |

### [ There ]

|                  |           |            |
|------------------|-----------|------------|
| Latin            | 732325351 | i l l a: k |
| French           | --3227-   | - - l a -  |
| Spanish          | 27-527-   | a - j a -  |
| Italian          | --3227-   | - - l a -  |
| PortugueseBrazil | --3227-   | - - l a -  |
| Portuguese       | --3227-   | - - l a -  |
| Catalan          | 4-3527-   | ə - ʎ a -  |
| Walloon          | --3227-   | - - l a -  |
| Friulian         |           |            |
| Romanian         | --3227-   | - - l a -  |

### [ There ]

|                  |       |        |
|------------------|-------|--------|
| Latin            | 71937 | i b i: |
| French           |       |        |
| Spanish          |       |        |
| Italian          | -187  | - v i  |
| PortugueseBrazil |       |        |
| Portuguese       |       |        |
| Catalan          |       |        |
| Walloon          |       |        |
| Friulian         |       |        |
| Romanian         |       |        |

### [ There ]

|                  |     |     |
|------------------|-----|-----|
| Latin            |     |     |
| French           |     |     |
| Spanish          | 277 | a i |
| Italian          |     |     |
| PortugueseBrazil | 277 | a i |
| Portuguese       | 297 | ɐ i |
| Catalan          |     |     |
| Walloon          |     |     |
| Friulian         |     |     |
| Romanian         |     |     |

### [ Who ]

|                  |        |                      |
|------------------|--------|----------------------|
| Latin            | 87-714 | k <sup>w</sup> - i s |
| French           | 51-7-  | k - i -              |
| Spanish          |        |                      |
| Italian          | 51-7-  | k - i -              |
| PortugueseBrazil |        |                      |
| Portuguese       |        |                      |
| Catalan          | 51-7-  | k - i -              |
| Walloon          | 51-37- | k - i:-              |
| Friulian         | 5187-  | k w i -              |
| Romanian         |        |                      |

## Appendix 3 - Character File

|                  |            |                           |
|------------------|------------|---------------------------|
| [ Who ]          |            |                           |
| Latin            | 87-026-    | k <sup>w</sup> - e m -    |
| French           |            |                           |
| Spanish          | 5112013-   | k j e n -                 |
| Italian          |            |                           |
| PortugueseBrazil | 51-41--    | k - ěj̃ - -               |
| Portuguese       | 51-54--    | k - ěj̃ - -               |
| Catalan          |            |                           |
| Walloon          |            |                           |
| Friulian         |            |                           |
| Romanian         | 46-7130    | tʃ - i n e                |
| [ What ]         |            |                           |
| Latin            | 87-723     | k <sup>w</sup> - i d      |
| French           | 51827-     | k w a -                   |
| Spanish          | 51-0-      | k - e -                   |
| Italian          | 51-0-      | k - e -                   |
| PortugueseBrazil | 51-7-      | k - i -                   |
| Portuguese       | 51-47-     | k - i -                   |
| Catalan          | 51-31-     | k - ε -                   |
| Walloon          | 51857-     | k w ε: -                  |
| Friulian         | 46-0-      | tʃ - e -                  |
| Romanian         | 46-0-      | tʃ - e -                  |
| [ When ]         |            |                           |
| Latin            | 87-2713232 | k <sup>w</sup> - a n d o: |
| French           | 51-43---   | k - ã - - -               |
| Spanish          | 5182713236 | k w a n d o               |
| Italian          | 5182713236 | k w a n d o               |
| PortugueseBrazil | 51845-2315 | k w ě - d u               |
| Portuguese       | 51845-2315 | k w ě - d u               |
| Catalan          | 5182713--  | k w a n - -               |
| Walloon          | 518271323- | k w a n d -               |
| Friulian         | 518271320- | k w a n t -               |
| Romanian         | 51-471323- | k - i n d -               |
| [ How ]          |            |                           |
| Latin            | 872266236  | k <sup>w</sup> o: m o d o |
| French           | 5192643--  | k ɔ̃ m ã - -              |
| Spanish          | 516266--   | k o m o - -               |
| Italian          | 516260--   | k o m e - -               |
| PortugueseBrazil | 5162615--  | k o m u - -               |
| Portuguese       | 5162615--  | k o m u - -               |
| Catalan          | 51926---   | k ɔ̃ m - - -              |
| Walloon          | 5192662--  | k ɔ̃ m ě - -              |
| Friulian         | 460262120- | tʃ e m u: t -             |
| Romanian         | 511526---  | k u m - - -               |
| [ Not ]          |            |                           |
| Latin            | 13213      | n o: n                    |
| French           | 1342-      | n ɔ̃ -                    |
| Spanish          | 136-       | n o -                     |
| Italian          | 13613      | n o n                     |
| PortugueseBrazil | 1363-      | n ěw̃ -                   |
| Portuguese       | 1363-      | n ěw̃ -                   |

## Appendix 3 - Character File

|                  |              |               |
|------------------|--------------|---------------|
| Catalan          | 136-         | n o -         |
| Walloon          | 1342-        | n õ -         |
| Friulian         | 136-         | n o -         |
| Romanian         | 1315-        | n u -         |
| [ Not ]          |              |               |
| Latin            | 13051        | n e k         |
| French           | 137-         | n i -         |
| Spanish          | 137-         | n i -         |
| Italian          | 130-         | n e -         |
| PortugueseBrazil | 1341-        | n ěj -        |
| Portuguese       | 1354-        | n ěj -        |
| Catalan          | 137-         | n i -         |
| Walloon          | 1364-        | n ě -         |
| Friulian         |              |               |
| Romanian         |              |               |
| [ At ]           |              |               |
| Latin            | 2723         | a d           |
| French           | 27-          | a -           |
| Spanish          | 27-          | a -           |
| Italian          | 27-          | a -           |
| PortugueseBrazil | 27-          | a -           |
| Portuguese       | 29-          | e -           |
| Catalan          | 27-          | a -           |
| Walloon          | 27-          | a -           |
| Friulian         | 27-          | a -           |
| Romanian         | 27-          | a -           |
| [ In ]           |              |               |
| Latin            | 713          | i n           |
| French           |              |               |
| Spanish          | 013          | e n           |
| Italian          | 713          | i n           |
| PortugueseBrazil | 41-          | ěj -          |
| Portuguese       | 54-          | ěj -          |
| Catalan          | 413          | ə n           |
| Walloon          |              |               |
| Friulian         |              |               |
| Romanian         | 4713         | i n           |
| [ In ]           |              |               |
| Latin            | 230713201514 | d e i n t u s |
| French           | 2343-----    | d ă - - - -   |
| Spanish          |              |               |
| Italian          |              |               |
| PortugueseBrazil |              |               |
| Portuguese       |              |               |
| Catalan          | 237-13--14   | d i - n - - s |
| Walloon          |              |               |
| Friulian         |              |               |
| Romanian         |              |               |
| [ With ]         |              |               |
| Latin            | 511526       | k u m         |
| French           |              |               |

### Appendix 3 - Character File

|                  |           |                    |
|------------------|-----------|--------------------|
| Spanish          | 51613     | k o n              |
| Italian          | 51613     | k o n              |
| PortugueseBrazil | 5161-     | k õ -              |
| Portuguese       | 5161-     | k õ -              |
| Catalan          |           |                    |
| Walloon          |           |                    |
| Friulian         |           |                    |
| Romanian         | 5115-     | k u -              |
| [ With ]         |           |                    |
| Latin            | 271940665 | a b h o c          |
| French           | 2718-051  | a v - e k          |
| Spanish          |           |                    |
| Italian          |           |                    |
| PortugueseBrazil |           |                    |
| Portuguese       |           |                    |
| Catalan          |           |                    |
| Walloon          | 2718-15-  | a v - u -          |
| Friulian         |           |                    |
| Romanian         |           |                    |
| [ And ]          |           |                    |
| Latin            | 020       | e t                |
| French           | 0-        | e -                |
| Spanish          | 7-        | i -                |
| Italian          | 0-        | e -                |
| PortugueseBrazil | 7-        | i -                |
| Portuguese       | 7-        | i -                |
| Catalan          | 7-        | i -                |
| Walloon          | 31-       | ε -                |
| Friulian         | 0-        | e -                |
| Romanian         | 0-        | e -                |
| [ And ]          |           |                    |
| Latin            | 143751    | s i: k             |
| French           | 147-      | s i -              |
| Spanish          | 147-      | s i -              |
| Italian          | 147-      | s i -              |
| PortugueseBrazil | 1444-     | s ï -              |
| Portuguese       | 1444-     | s ï -              |
| Catalan          | 147-      | s i -              |
| Walloon          | 147-      | s i -              |
| Friulian         | 147-      | s i -              |
| Romanian         | 167-      | f i -              |
| [ Because ]      |           |                    |
| Latin            | 87623     | k <sup>w</sup> o d |
| French           | 514-      | k ə -              |
| Spanish          | 510-      | k e -              |
| Italian          | 510-      | k e -              |
| PortugueseBrazil | 517-      | k i -              |
| Portuguese       | 5147-     | k i -              |
| Catalan          | 514-      | k ə -              |
| Walloon          | 5137-     | k i: -             |
| Friulian         | 510-      | k e -              |
| Romanian         | 514-      | k ə -              |

## Appendix 3 - Character File

---

;  
end;