# Appendix 1 - Tongue Twister Configuration


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Catalan)),(Friulian,Italian))));",
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3.083295,4.141740,0.184077,1.702715,0.046019,0.046019,3.773585,0.368155,2.577082,0.506213,
2.899218,1.242522,0.046019,3.129314,4.049701,1.380580,0.230097,4.141740,2.024850,0.874367,
1.196503,0.092039,1.012425,0.368155,0.046019,0.644271,0.046019,0.966406,2.116889,1.610676,
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  ]},
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    {"Taxon": "Portuguese",       "Segments": [16, 22, 20, -1, 11, -1]},
    {"Taxon": "Catalan",          "Segments": [16, 5, 20, -1, -1, -1]},
    {"Taxon": "Friulian",         "Segments": [16, 12, 17, -1, -1, -1]},
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  {"Taxon": "Walloon",          "Segments": [-1, 31, 25, -1, 12, -1, -1, -1, -1]},
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  {"Taxon": "Romanian",         "Segments": [18, -1, 43, 1, 5, -1]}
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  {"Taxon": "Romanian",         "Segments": [16, -1, 39, 45, 31, -1, 18, -1, 34, 5, -1]}
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  {"Taxon": "Italian",          "Segments": [2, -1, 46, 33, 33, 3]},
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  {"Taxon": "Portuguese",       "Segments": [2, -1, 14, 33, -1, 38]},
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  {"Taxon": "Italian",          "Segments": [35, -1, 12, 17, 4, -1, 3]},
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  {"Taxon": "Catalan",          "Segments": [-1, 46, 23, -1, -1]},
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  {"Taxon": "Friulian",         "Segments": [-1, 55, 2, -1, -1]},
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  {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 14, 54, 1, 31]},
  {"Taxon": "Portuguese",       "Segments": [18, -1, 14, 37, 1, 31]},
  {"Taxon": "Catalan",          "Segments": [18, -1, 46, 35, 1, -1]},
  {"Taxon": "Romanian",         "Segments": [18, -1, 14, 35, 1, -1]}
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  {"Taxon": "Walloon",          "Segments": [18, 23, 12, -1, 1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [18, 23, 3, 35, -1, -1, -1]}
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  {"Taxon": "Portuguese",       "Segments": [18, 29, 45, 38]},
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  {"Taxon": "Romanian",        "Segments": [16, -1, 39, 37, -1, -1]}
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  {"Taxon": "Walloon",         "Segments": [56, -1, 28, 12, -1, -1, -1, -1]},
  {"Taxon": "Friulian",        "Segments": [42, 3, 28, 5, 30, -1, -1, -1]}
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  {"Taxon": "Spanish",         "Segments": [14, 37, 5, -1, 36, -1, -1, 3]},
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  {"Taxon": "Walloon",          "Segments": [17, 5, -1, -1, -1]},
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  {"Taxon": "Portuguese",       "Segments": [28, -1, 5, -1, -1, 33, 31, -1]},
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  {"Taxon": "Walloon",          "Segments": [28, 0, -1, -1, -1, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [28, 34, 5, -1, -1, -1, 0, -1]},
  {"Taxon": "Romanian",         "Segments": [28, -1, 5, 67, -1, -1, -1, -1]}
]},
```

# Appendix 1 - Tongue Twister Configuration


```
{"Name": "Good-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [27, -1, 14, 1, 31, 17]},
  {"Taxon": "French",           "Segments": [27, -1, 24, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [27, 23, 5, 1, 14, -1]},
  {"Taxon": "Italian",          "Segments": [27, 23, 46, 1, 14, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [27, -1, 26, -1, -1, -1]},
  {"Taxon": "Portuguese",       "Segments": [27, -1, 26, -1, -1, -1]},
  {"Taxon": "Catalan",          "Segments": [27, -1, 46, 1, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [27, -1, 24, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [27, -1, 46, 1, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [27, -1, 31, 1, -1, -1]}
]},
{"Name": "Far-Primary", "Data": [
  {"Taxon": "French",           "Segments": [30, 23, 40, -1, 4, 40, -1, -1]},
  {"Taxon": "Italian",          "Segments": [30, -1, 14, 1, 4, 3, 1, 14]},
  {"Taxon": "Catalan",          "Segments": [33, -1, 31, 1, 4, 3, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [30, -1, 14, 1, 4, 3, 1, -1]}
]},
{"Name": "Red-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [35, 31, 17, 17, 31, 17]},
  {"Taxon": "French",           "Segments": [54, 31, -1, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [35, 14, -1, 36, 14, -1]},
  {"Taxon": "Italian",          "Segments": [35, 14, 17, 17, 14, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [54, 14, -1, 20, 81, -1]},
  {"Taxon": "Portuguese",       "Segments": [54, 14, -1, 20, 31, -1]},
  {"Taxon": "Catalan",          "Segments": [35, 14, -1, 17, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [35, 46, 56, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [35, 46, -1, 17, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [37, 14, -1, 20, 31, -1]}
]},
{"Name": "Red-Vermiculus", "Data": [
  {"Taxon": "Latin",            "Segments": [28, 5, 35, 6, 0, 18, 31, 30, 31, 17]},
  {"Taxon": "French",           "Segments": [28, 12, 54, 6, 66, -1, -1, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [27, 5, 37, 6, 5, 36, 14, -1, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [28, 5, 54, 6, 5, -1, -1, 33, 31, -1]},
  {"Taxon": "Portuguese",       "Segments": [28, 11, 37, 6, 22, -1, -1, 33, 31, -1]},
  {"Taxon": "Catalan",          "Segments": [27, 39, 35, 6, 12, -1, -1, 33, -1, -1]}
]},
{"Name": "Red-Rubeus", "Data": [
  {"Taxon": "Latin",            "Segments": [35, 31, -1, 27, 5, 31, 17]},
  {"Taxon": "French",           "Segments": [54, 31, -1, 70, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [35, 31, -1, 27, 34, 14, -1]},
  {"Taxon": "Italian",          "Segments": [35, 46, 27, 27, 34, 14, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [35, 31, -1, 27, 5, 14, -1]},
  {"Taxon": "Portuguese",       "Segments": [35, 31, -1, 27, 5, 14, -1]},
  {"Taxon": "Catalan",          "Segments": [35, 31, -1, 56, 5, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [35, 46, -1, 10, -1, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [35, 57, -1, 27, -1, -1, -1]}
]},
{"Name": "Black-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [1, -1, 0, 60, 35, 31, 6]},
  {"Taxon": "French",           "Segments": [1, 23, 3, -1, 54, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [1, 5, 72, 37, 14, -1, -1]},
  {"Taxon": "Italian",          "Segments": [1, 5, -1, 35, 14, -1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [1, 5, 60, 37, 31, -1, -1]},
  {"Taxon": "Portuguese",       "Segments": [1, 5, 60, 37, 31, -1, -1]},
  {"Taxon": "Catalan",          "Segments": [1, 12, 72, 37, 39, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [1, 62, -1, 35, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [1, 5, -1, 35, 0, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [1, 5, 60, 37, 31, -1, -1]}
]},
```

# Appendix 1 - Tongue Twister Configuration


```
{"Name": "Black-Pretto", "Data": [
  {"Taxon": "Spanish",          "Segments": [16, 37, 34, 5, 4, 14]},
  {"Taxon": "PortugueseBrazil", "Segments": [16, 37, -1, 5, 4, 31]},
  {"Taxon": "Portuguese",       "Segments": [16, 37, -1, 5, 4, 31]}
]},
{"Name": "One-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [55, 1, 31, 17]},
  {"Taxon": "French",           "Segments": [82, -1, -1, -1]},
  {"Taxon": "Spanish",          "Segments": [31, 1, 14, -1]},
  {"Taxon": "Italian",          "Segments": [31, 1, 14, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [83, -1, -1, -1]},
  {"Taxon": "Portuguese",       "Segments": [83, -1, -1, -1]},
  {"Taxon": "Catalan",          "Segments": [31, 1, -1, -1]},
  {"Taxon": "Walloon",          "Segments": [24, -1, -1, -1]},
  {"Taxon": "Friulian",         "Segments": [31, 1, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [31, 1, 31, -1]}
]},
{"Name": "Who-Qui", "Data": [
  {"Taxon": "Latin",            "Segments": [75, -1, 0, 17]},
  {"Taxon": "French",           "Segments": [18, -1, 0, -1]},
  {"Taxon": "Italian",          "Segments": [18, -1, 0, -1]},
  {"Taxon": "Catalan",          "Segments": [18, -1, 0, -1]},
  {"Taxon": "Walloon",          "Segments": [18, -1, 0, -1]},
  {"Taxon": "Friulian",         "Segments": [18, 23, 0, -1]}
]},
{"Name": "Who-Quem", "Data": [
  {"Taxon": "Latin",            "Segments": [75, -1, 5, 6, -1]},
  {"Taxon": "Spanish",          "Segments": [18, 34, 5, 1, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 15, -1, -1]},
  {"Taxon": "Portuguese",       "Segments": [18, -1, 84, -1, -1]},
  {"Taxon": "Romanian",         "Segments": [10, -1, 0, 1, 5]}
]},
{"Name": "What-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [75, -1, 0, 45]},
  {"Taxon": "French",           "Segments": [18, 23, 3, -1]},
  {"Taxon": "Spanish",          "Segments": [18, -1, 5, -1]},
  {"Taxon": "Italian",          "Segments": [18, -1, 5, -1]},
  {"Taxon": "PortugueseBrazil", "Segments": [18, -1, 0, -1]},
  {"Taxon": "Portuguese",       "Segments": [18, -1, 11, -1]},
  {"Taxon": "Catalan",          "Segments": [18, -1, 12, -1]},
  {"Taxon": "Walloon",          "Segments": [18, 23, 12, -1]},
  {"Taxon": "Friulian",         "Segments": [10, -1, 5, -1]},
  {"Taxon": "Romanian",         "Segments": [10, -1, 5, -1]}
]},
{"Name": "Not-Primary", "Data": [
  {"Taxon": "Latin",            "Segments": [1, 47, 1]},
  {"Taxon": "French",           "Segments": [1, 24, -1]},
  {"Taxon": "Spanish",          "Segments": [1, 14, -1]},
  {"Taxon": "Italian",          "Segments": [1, 14, 1]},
  {"Taxon": "PortugueseBrazil", "Segments": [1, 41, -1]},
  {"Taxon": "Portuguese",       "Segments": [1, 41, -1]},
  {"Taxon": "Catalan",          "Segments": [1, 14, -1]},
  {"Taxon": "Walloon",          "Segments": [1, 24, -1]},
  {"Taxon": "Friulian",         "Segments": [1, 14, -1]},
  {"Taxon": "Romanian",         "Segments": [1, 31, -1]}
]},
{"Name": "Not-Nec", "Data": [
  {"Taxon": "Latin",            "Segments": [1, 5, 18]},
  {"Taxon": "French",           "Segments": [1, 0, -1]},
  {"Taxon": "Spanish",          "Segments": [1, 0, -1]},
  {"Taxon": "Italian",          "Segments": [1, 5, -1]},
```

```
    {"Taxon": "PortugueseBrazil", "Segments": [1, 15, -1]},
    {"Taxon": "Portuguese",       "Segments": [1, 84, -1]},
    {"Taxon": "Catalan",          "Segments": [1, 0, -1]},
    {"Taxon": "Walloon",          "Segments": [1, 0, -1]}
  ]},
  {"Name": "In-In", "Data": [
    {"Taxon": "Latin",            "Segments": [0, 1]},
    {"Taxon": "French",           "Segments": [7, -1]},
    {"Taxon": "Spanish",          "Segments": [5, 1]},
    {"Taxon": "Italian",          "Segments": [0, 1]},
    {"Taxon": "PortugueseBrazil", "Segments": [15, -1]},
    {"Taxon": "Portuguese",       "Segments": [84, -1]},
    {"Taxon": "Catalan",          "Segments": [39, 1]},
    {"Taxon": "Walloon",          "Segments": [12, 1]},
    {"Taxon": "Romanian",         "Segments": [11, 1]}
  ]},
  {"Name": "In-Deintus", "Data": [
    {"Taxon": "Latin",            "Segments": [45, 5, 0, 1, 4, 31, 17]},
    {"Taxon": "French",           "Segments": [45, 7, -1, -1, -1, -1, -1]},
    {"Taxon": "Catalan",          "Segments": [45, 0, -1, 1, -1, -1, 17]}
  ]}
  ]
}
```