Thinking Different

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Constructed Languages

Toki Pona
(Lit: the language of good)

Tokenizing

- Is easy! Toki Pona has a consistent grammar

- Now, to use this:

```
[]tokiponatokens.Sentence{
    {
        {
            Type:    "subject",
            Sep:     (*string)(nil),
            Tokens: {"mi", "olin"},
            Parts:   nil,
        },
        {
            Type:    "objectMarker",
            Sep:     &"e",
            Tokens: {"sina"},
            Parts:   nil,
        },
        {
            Type:    "punctuation",
            Sep:     (*string)(nil),
            Tokens: {"period"},
            Parts:   nil,
        },
    },
}
```

```go
func parseRequest(authorID string, inp tokiponatokens.Sentence) (*Request, error) {
    var result Request
    result.Author = authorID
    result.Input = inp

    for _, part := range inp {
        switch part.Type {
        case tokiponatokens.PartAddress:
            for i, pt := range part.Parts {
                if i == 0 {
                    result.Address = append(result.Address, pt.Tokens[0])
                    continue
                }

                result.Address = append(result.Address, strings.Title(strings.Join(pt.Tokens, "")))
            }
        case tokiponatokens.PartSubject:
            if len(part.Tokens) == 0 {
                sub := strings.Title(strings.Join(part.Parts[1].Tokens, ""))
                result.Subject = sub
            } else {
                sub := strings.Join(part.Tokens, " ")
                result.Subject = sub
            }
        case tokiponatokens.PartObjectMarker:
            act := strings.Join(part.Tokens, ",")

            switch act {
            case actionFront, actionWhat:
            case actionMarkov:
            default:
                return nil, ErrUnknownAction
            }

            result.Action = act
        case tokiponatokens.PartPunctuation:
            result.Punct = part.Tokens[0]
        }
    }

    return &result, nil
}
```

Parsing things badly

We all have to start somewhere

Usage

- Translations:

- Cadey\ Tool-Cadey, write garbage (sentence is a command)

- Tool-Cadey\ <markov chain output from my Discord DGPR data dump>

- Cadey\ Tool-Cadey, what time is it [in the paracosm I created]? (sentence is a command)

- Tool-Cadey\ It is currently year zero, summer (season of heat), end cycle, second week, second sun, 6:15 remainder

Future Expansions

- Support for commands in Lojban or maybe even Esperanto

- Work up to a generic knowledge engine to make project "shitty Alexa"

- Actually parsing things into semantic meaning

- Creating an "intermediate language" for the facilitation of translation between Toki Pona and Lojban

- More features that are easier to explain and don't require as much context from the chatroom that they were made to amuse

mi tawa