Collecting Aligned Textual Corpora from the Hidden Web

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Aligned Parallel Corpus

- Definition (wikipedia):
  - “A **parallel text** is a text placed alongside its translation or translations”
- Usage:
  - Translation Memory
  - Machine Translation
  - Natural Language Processing
- Standards:
  - TMX – Translation Memory eXchange
  - TBX – TermBase eXchange
  - UTX – Universal Terminology eXchange
  - (SRX, GMX-GILT, OLIF, XLIFF, TransWS, ...)

But Where to Get the Data?

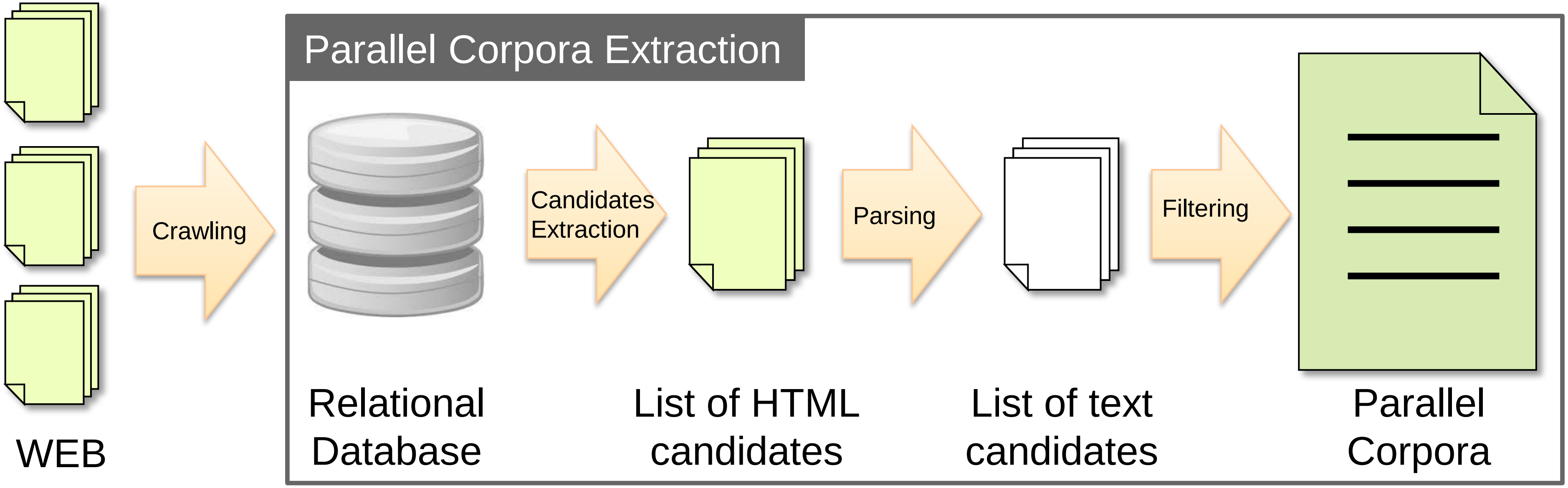
- Non-English professional websites
- Huge amounts of translated text
- Generally quality translations

- We call this the Hidden Web

Problems

- Translation Memory is hard / expensive to obtain
  - Idea: Automatic harnessing of existing data
- Data should have very high precision
  - What precision is needed?
- No standard fully supports automatic:
  - Harnessing of the data
  - Cleaning of the data

Proposed Solution



Available at: http://kameleon.ijs.si/t4me

Discussion on Standards

- We build on TMX:
  - Is this the right choice?
  - Source language must be defined!
  - An optional parameter to define the source of each segment
- Proposals for automatic harnessing of TM:
  - Provide a new standard
  - Build on an existing one
  - Ideas?

Future Work

- Optimizing Crawling:
  - Two phase crawling
  - Character Encodings
  - Enhanced candidates extraction
- Optimizing Extraction:
  - Segmentation
  - Language identification
  - Enhanced filtering
- Web service / Web application
  - Translation Memory distribution
  - Filtering (Web 2.0 style)