



Figure 3: BabelNetXplorer Graphical User Interface.

5. RELATED WORK

Recent work in knowledge base browsing and visualization has concentrated on building semantic graphs to perform Word Sense Disambiguation [7], summarization techniques for extracting semantic graphs expressing the most salient relations of an entity with its related concepts [15], as well as improving search by means of geographic and temporal information [4] – which is complementary to similar efforts in browsing document collections [14]. Our work complements these parallel contributions by means of an integrated platform (including both API and graphical components), which allows the user to query and search programmatically a very large multilingual lexical knowledge base, and to browse it visually. BabelNetXplorer builds upon BabelNet, a multilingual ‘encyclopedic dictionary’ bringing together the lexicographic and encyclopedic knowledge from WordNet and Wikipedia. Other recent efforts on creating multilingual knowledge bases from Wikipedia include WikiNet [6] and MENTA [2]: both these resources offer structured information complementary to BabelNet – i.e., large amounts of facts about entities (MENTA), and explicit semantic relations harvested from Wikipedia categories (WikiNet) – and will be integrated in the future into our API and GUI.

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