

# API for Wikidata

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# API for Wikidata

- Background and limitations
- Present structure
- Known problems
  - Cross domain requests (XHR)
  - Session failure

# Background and limitations

- It supports the Wikibase extension, especially the user interface, not bots
- It is not a real alternative to existing props, query and generator modules
- It is not made for large bulk uploads, but it can be done
- It should not be necessary to do handshaking before transfer of values

# Present structure

- Each core functionality is given its own module with some leeway
  - `wbsetitem` - build an item
  - `wbgetitemid` - get the item id given site and title
  - `wbgetitems` - get filtered information about items
  - `wbgetsitelinks` - get all sitelinks for an item
  - `wbsetlanguageattribute` - set, add and update label and description
  - `wbdeletelanguageattribute` - remove label and description
  - `wbsetaliases` - set, add and remove aliases
  - `wblinksite` - connect a client page

# Documentation

- The API has an embedded documentation (api.php) and a documentation page at `[[mw:Extension:Wikibase/API]]`

# Known problems

- The call methods are not consistent and this makes it confusing to use (3x)
- Result sets can be very large, 284 projects („sites“) and 424 translations („languages“)
- Rights are not available before saving data
- Tokens does not use salting by page id
- Errors due to non-normalized database
- Messages are a mixture of English and localized messages

# Cross domain requests (write)

- Browsers are connected to different sites inside Wikimedia („repo“, „clients“) and some alien ones
  - Script tricks can be made to work, but needs additional security
  - Document.domain works within Wikimedia
  - CORS is the future, but lacks support
  - Full-blown proxy („trusted proxy“) in clients with forwarding of user credentials will work
  - Frames works if one site is read only

# Keeping the user logged in

- Users are sometimes logged out, and this has consequences
  - User don't reload the page
  - API keeps on using an invalid token
  - User will get error messages
  - ...what to do?