



Chromium

An open-source project to help move the web forward

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What is Chromium?

- ▶ Open-source project
- ▶ Web browser
- ▶ Chromium form basis of Chrome
- ▶ First commit in July 2008
- ▶ Available at <http://www.chromium.org/>

„My“ Issue

- ▶ Solve Issue [446077](#)
- ▶ missing words in built-in dictionary
- ▶ Add words to **Hunspell** dictionary files
- ▶ Only 48624 basic words in Chromium US dictionary
- ▶ Improves spell-checker

Issue solving

- ▶ Get Chromium and dependencies from repositories
- ▶ Learn dictionary rules
- ▶ Add missing words
- ▶ Put in Chromium
- ▶ Build
- ▶ Test
- ▶ Commit
- ▶ Push

Technical details

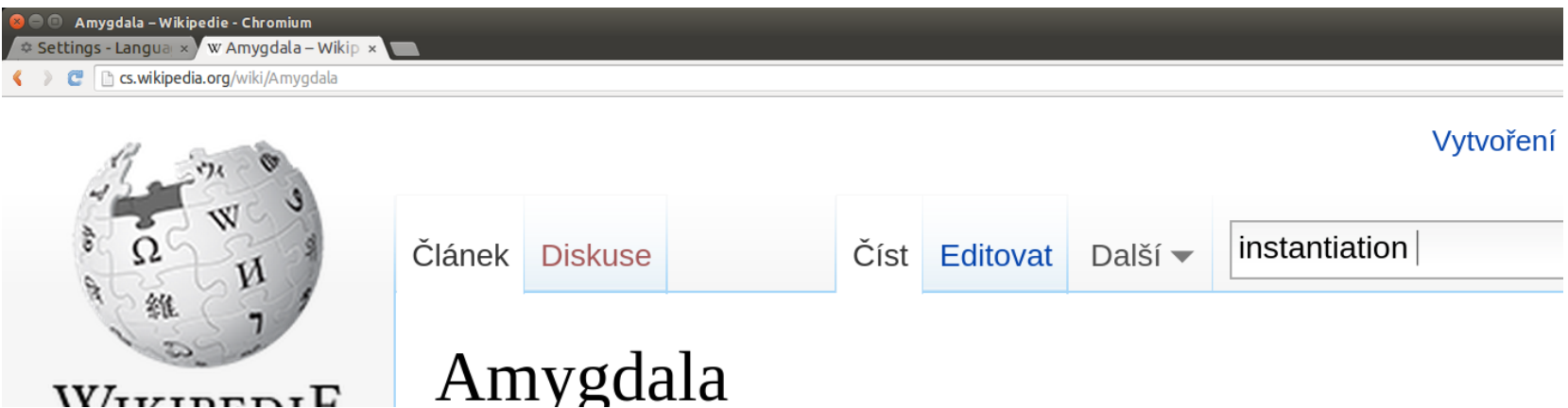
▶ Hunspell Dictionaries

- *.aff – Rules mainly to change part of words:
 - Prefixes
 - Suffixes
 - Word parts
- *.dic – Dictionary
 - Words with appended rules after slash
 - Example:
 - polite/RYP

Solution

- ▶ Advanced en_US dictionary found
- ▶ Missing words in both
 - Chromium Hunspell dictionary
 - Hunspell original dictionary
- ▶ Merge
 - Merge words – no duplicity and redundance words
 - Merge rules in *.aff file
 - No duplicity rules in *.dic and .aff words
- ▶ Used
 - hunspell(Java)–merge from **Artemy Tregubenko**
 - Rule Duplicity Remover(C++) – My own

Solution



Evaluation of results

- ▶ All added words are not red underlined
- ▶ Solution is not in chromium repositories

Communication with community

- ▶ Answers to my comments of issue came really fast
- ▶ A lot of tutorials – no communication needed
 - except git commit
- ▶ Some bugs while synchronizing project – not all dependencies included

Thank you for your attention!