Proofing Tools: Context-sensitive spelling correction

Goal

- You will be implementing advanced tools for spelling correction
- At its most basic, a traditional spell checker
 - Reports any *unrecognized* words to the user, along with suggested corrections
 - For some languages, a simple word list suffices
 - For other languages, need a dictionary and rules for word formation
 - e.g. jump/V => jump, jumps, jumped, jumping
- But we want more than this!

ODE TO A SPELL CHECKER by Jerrold H Zar

Eye halve a spelling check her, It came with my pea sea. It plane lee marks four my revue

Miss steaks aye kin knot sea.

Eye ran this poem threw it,

Your sure reel glad two no.
Its vary polished in it's weigh,

My checker tolled me sew.

A check her is a bless sing;
It freeze yew lodes of thyme.
It helps me right awl stiles two reed,

And aides me when aye rime.

Each frays come posed up on my screen, Eye trussed too bee a joule; The checker pours o'er every word To cheque sum spelling rule. Hour spelling was inn deck line,
Butt now when wee dew have a laps,

Wee are knot maid too wine.

Butt now bee cause my spelling

Bee fore wee rote with checkers

There are know faults with in my cite, Of nun eye am a wear.

Is checked with such grate flare,

It does knot bring a tier; My pay purrs awl due glad den With wrapped words fare as hear.

Now spelling does knot phase me,

To rite with care is quite a feet Of witch won should be proud; And we mussed dew the best wee can Sew flaws are knot aloud.

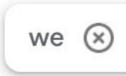
That's why eye brake in two averse Cuz eye dew want too please.
Sow glad eye yam that aye did bye This soft wear four pea seas.

Hello

Gail Scannell (gmail.com)

Hello

What will wee make for dinner tonight?



Basic requirements

- Primary application should be a simple web-based plain text editor
- Portable across browsers, mobile and desktop
- Must report all spelling errors, including "real word" errors
- Must provide a ranked list of suggestions for replacement
- Must support multiple languages (more on this later)
- Design should allow your advanced spelling correction to also be easily incorporated into the customer's existing applications and devices