# Generating Spelling Suggestions

Overview

### By the end of this video you will be able to...

 Describe the general idea of generating spelling suggestions for misspelled words

## speel correction

How do we generate spelling suggestions?

#### speel

We want to suggest words that are "close" to what was typed. But what defines "close"?

speel

Close == altered a little as possible

#### speel

#### 1 step away (single character transformation):

- Substitution—apeel, sbeel, spell, speek, ...
- Insertion—bspeel, sipeel, spetel, speele, ...
- Deletion—peel, seel, spel, spel, speel

A simple spell suggest algorithm:

- 1. Generate all strings "1 away" from the original string
- 2. Discard those that are not words



