My hovercraft full of eels - Robin Long, r.long@lancaster.ac.uk

https://www.youtube.com/watch?v=bNP7uQQT-oo

- ▶ The incorrect English translation for the Hungarian phrase "I would like some matches".

- ▶ When you start using a new programming language, we often only learn parts of it.

- ▶ We risk misusing the language - putting the correct bits together, but not in the best or correct way.

- ▶ You have learnt the words, just make sure you learn how to use them in sentences.

- ▶ Otherwise you may find: "I will not buy this software, it is scratched."

Just because they look similar doesn't mean they are

```python
1 class Hovercraft:
2     class_variable = 'eels'
3
4     def __init__(contents):
5         self.instance_variable = contents
6
7
8 #
```

```java
1 public class Hovercraft {
2     String instance_variable = 'eels';
3
4     Hovercraft(String contents){
5         this.instance_variable = contents;
6     }
7 }
```

Python - Use list comprehension

```python
1 numbers = [1,2,3,4,5,6,7,8,9]
2 squares = []
3 for i in numbers:
4     squares.append(i*i)
```

```python
1 numbers = [1,2,3,4,5,6,7,8,9]
2 squares = [i*i for i in numbers]
3
4 #
```

Julia - Don't write it like python

```julia
1 function mysum(data)
2     acc = zero(eltype(data))
3     for x in data
4         acc += x
5     end
6     return acc
7 end
```

```julia
1 function mysum2(data)
2     acc = zero(eltype(data))
3     @simd for x in data
4         acc += x
5     end
6     acc
7 end
```