Interpreter Pattern

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Breaking it Down

 Given a language, define a representation for its grammar along with an interpreter that uses the representation to interpret sentences in the language. (GOF)



Barcodes



How Bar Codes Work

- <UPC>::= <Manufacturer ID> <Item Number><Check Digit>
- <Manufacturer ID>::= <Digit><Digit><Digit><Digit><Digit>
- <Item Number>::= <Digit><Digit><Digit><Digit><</p>
- <Check Digit>::=<Digit>
- <Digit>::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9



Challenge!

- Make a barcode interpreter
 - Given a manufacturer id
 - Given a product code
 - Create a barcode with a check digit
- Check digit and other info:
 - http://en.wikipedia.org/wiki/Universal Product Code



Formal Definition

