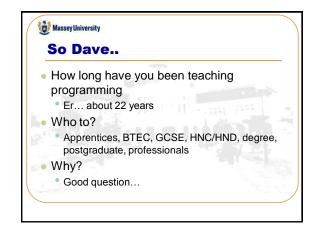


### Massey University

### Programming

 The magic of myth and legend has come true in our time. One types the correct incantation on a keyboard, and a display screen comes to life, showing things that never were nor could be.

• (author of 'The Mythical Man Month')



## Massey University

## Can you teach it?

Computer science education cannot make anybody an expert programmer any more than studying brushes and pigment can make somebody an expert painter.

> Copen Source spokesman and author of the New Hacker's Dictionary)

# MasseyUniversity The Point... What are you trying to achieve in your teaching of programming at Solent? What do you teach and why?

### Massey University

### **Making a choice**

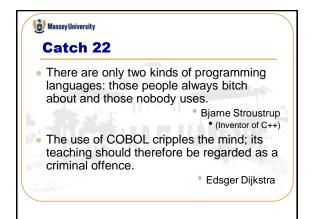
• A most important, but also most elusive, aspect of any tool is its influence on the habits of those who train themselves in its use. If the tool is a programming language this influence is, whether we like it or not, an influence on our thinking habits.

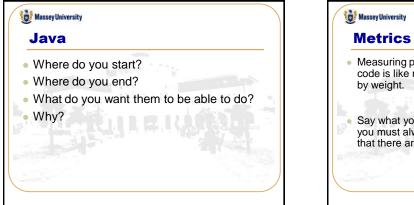
Edsger Dijkstra

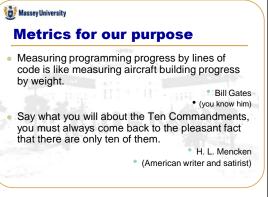
### Massey University

### Languages

- Can you teach all languages the same way?
- Why choose one language over another?
- How long does it take to learn the
- 'conversational' language?
- Is that any good to anyone?







## MasseyUniversity Making it easy Less is more Panic in the library One path is enough One piece of the jigsaw is more realistic No-one can remember syntax, menus, click and drag So what the heck do they remember?



## Massey University Holy grails Over the years... Design over implementation – ideas! Windows – wow factor (back then) Design patterns – more ideas! New languages – they always start simple! New tools – shiny stuff syndrome Things that reward quickly – browser programming Test first – more ideas to turn your head upside down! Agile games – design over implementation Mobile – wow factor (back then)

# Massey University Some ideas to ponder Java persistence API (finally) NetBeans for Mobile (Rails?) Eclipse for plugins Jade for quick wins and support Non programming tools like XMLSpy .NET – what is it trying to say?

