

Reflections on a PhD - the process in one!

IDG Seminar
Jon Pearce
September, 3 2004

The plan

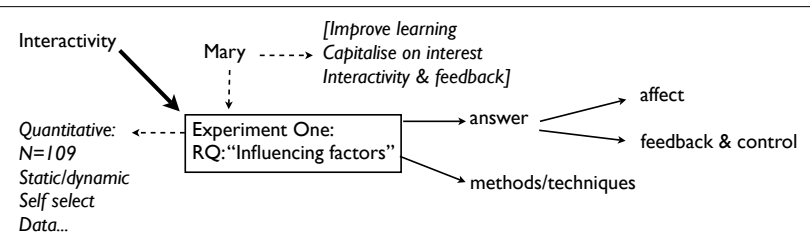
1. What I did
2. Reflections on process
3. Discussion

An investigation of flow theory to explain student behaviour during online interaction

Research question:

“How can flow theory be used as an explanatory
framework for investigating student engagement in an
online interactive learning environment?”

1. What are the influential factors over learner interactions in an online interactive learning task?
2. Of those influential factors, how do the flow concepts of challenge and skill describe and influence learner interaction?
3. Why do the flow concepts of challenge and skill present such an apparently inconsistent picture?



When Waves Meet

Waves

C4 But what is the 'wavelength'?

Now let's consider how we can determine the actual **value** of a wavelength.

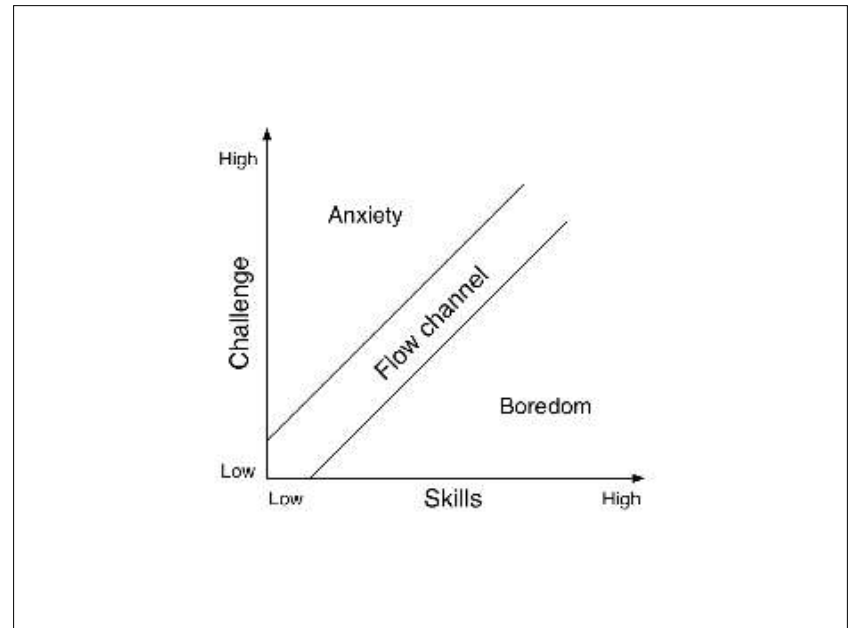
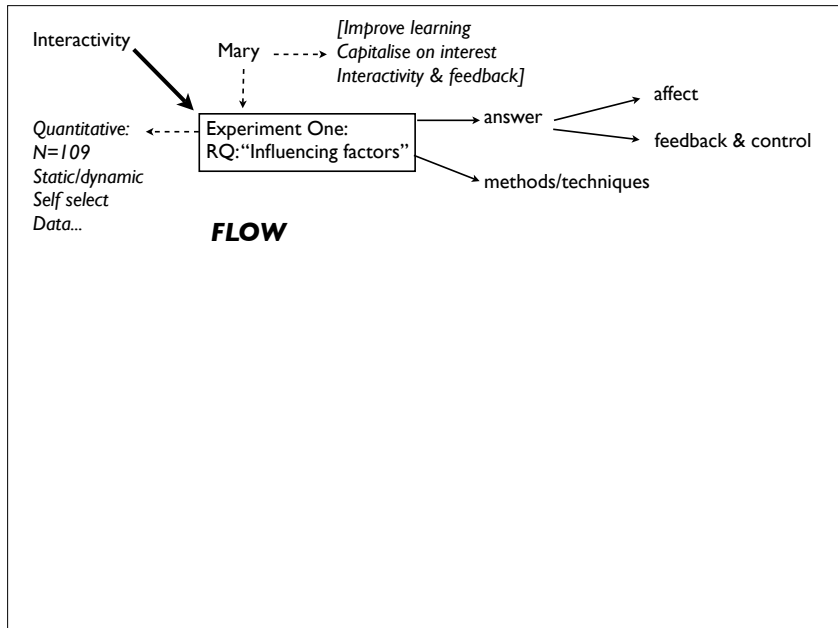
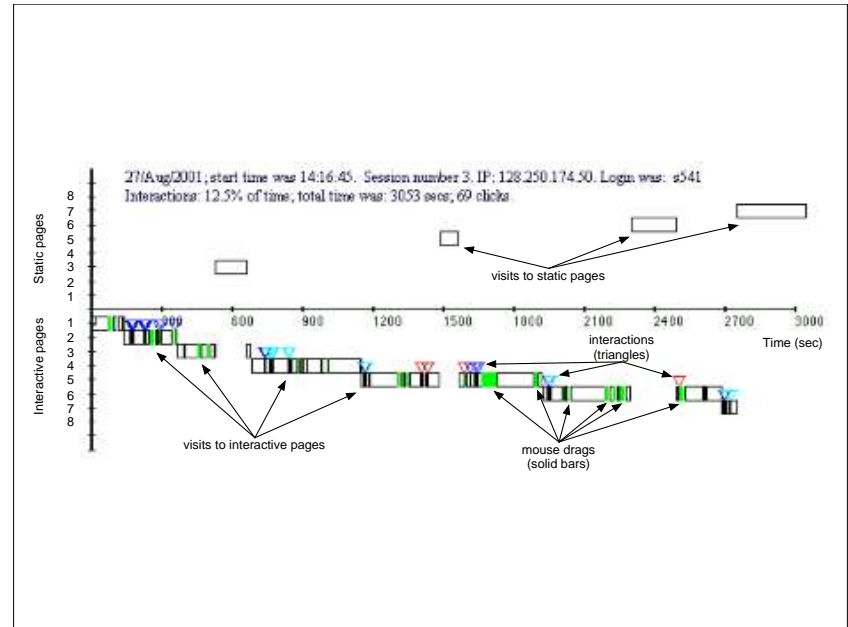
Set up: make sure the pattern still shows one source and that the cork/wavelength is set to the largest setting (well) and the cork is somewhere on an imaginary line that runs horizontally through the centre of the pattern. We will call this the **control-line** of the pattern.

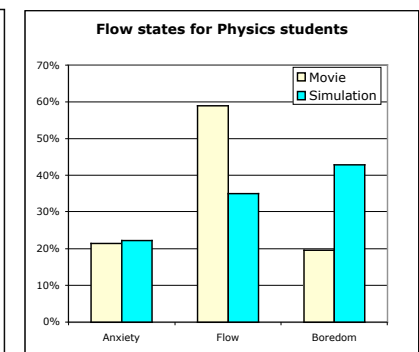
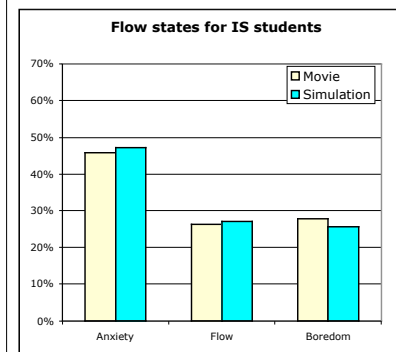
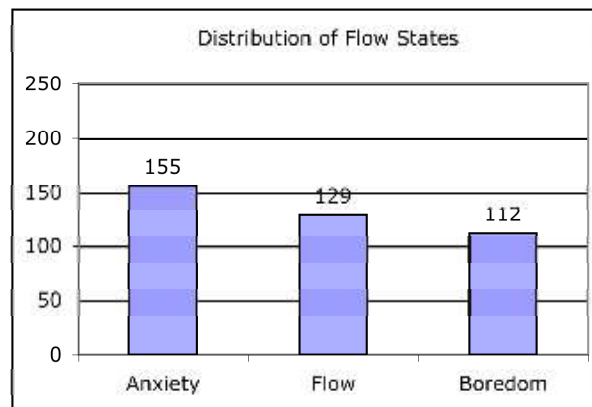
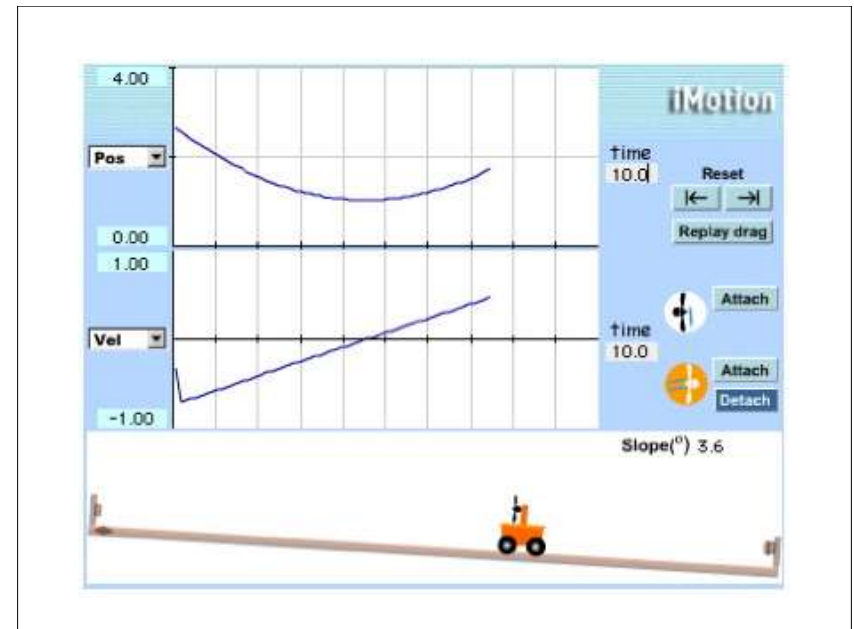
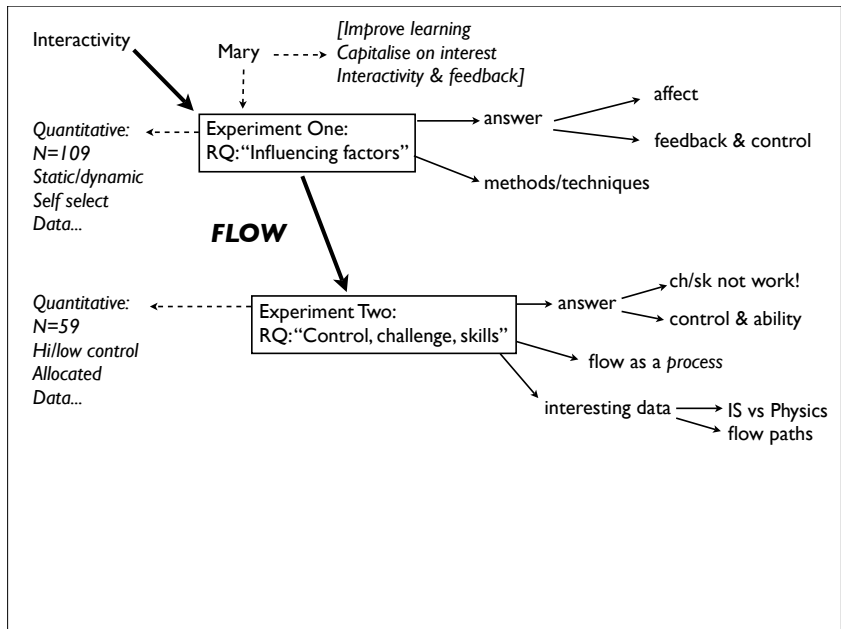
Now slowly move the cork away from the source from one dark band to the next **while watching the bottom graph**. The idea is to determine how much the graph slices past the cork as you go from one trough to the next. This is what we define as **one wavelength**.

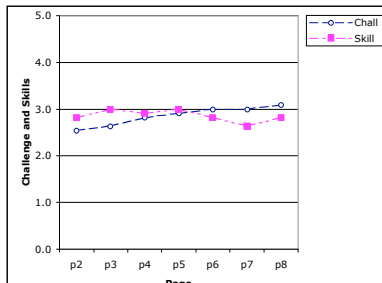
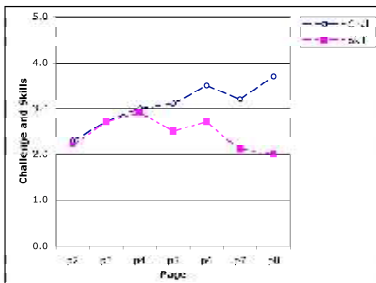
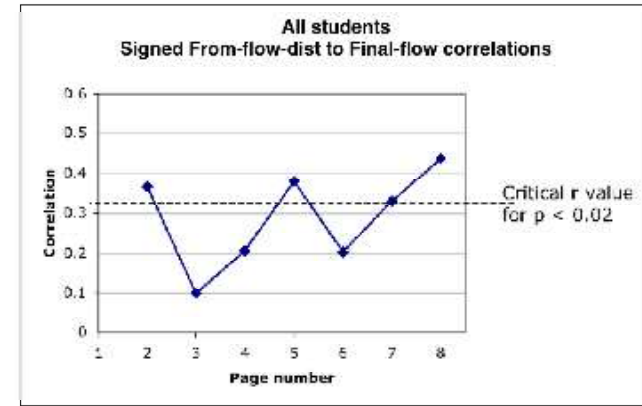
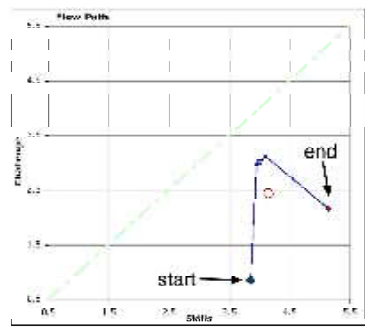
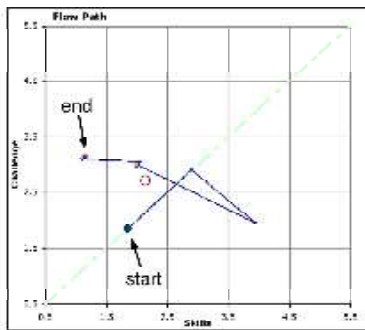
Repeat this starting from a light band, again moving rapidly away from (or towards) the source from one crest to the next. When you are confident, draw in your booklet what section of the graph represents one wavelength.

We could use a ruler to measure the distance from one trough to the next, or measure the same distance on the graph. The value we would get is called the **wavelength of the water wave**.

← Back Next →

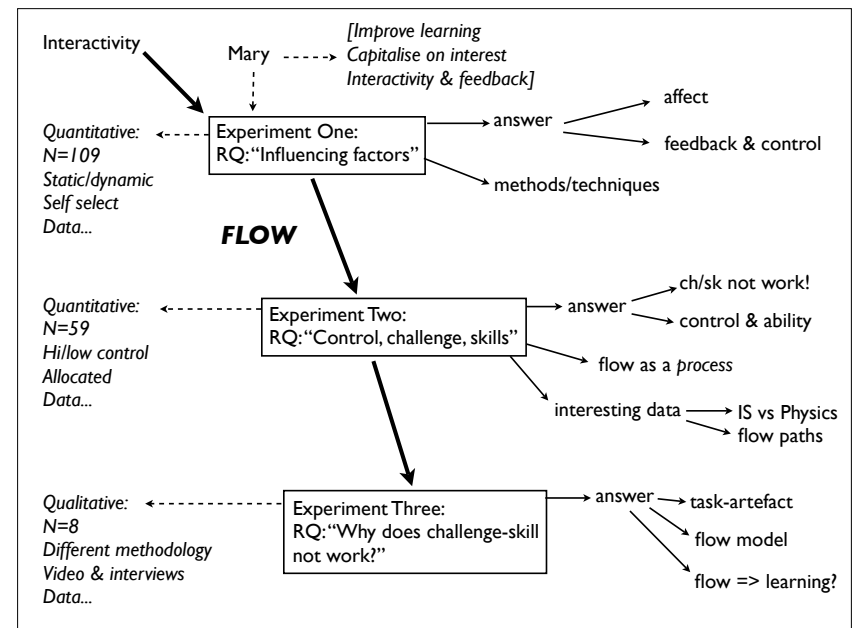


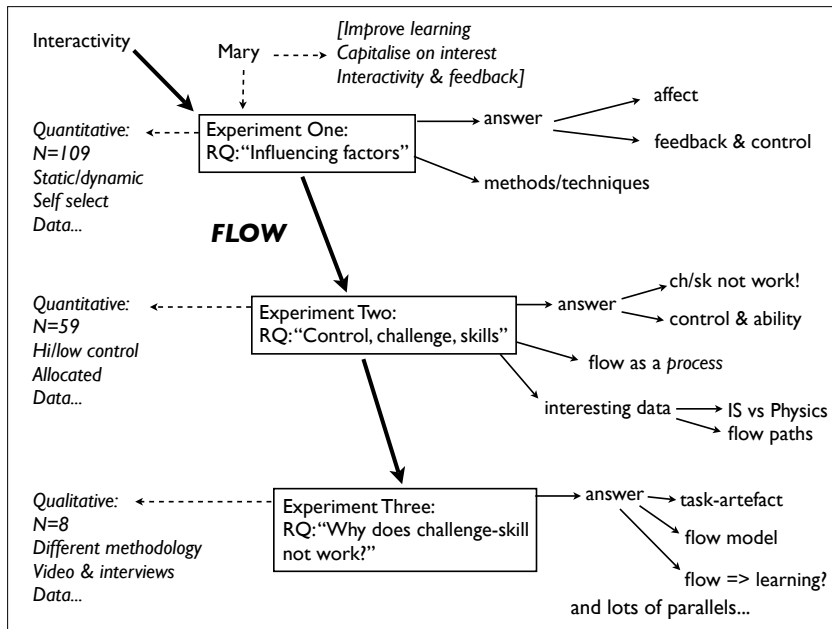
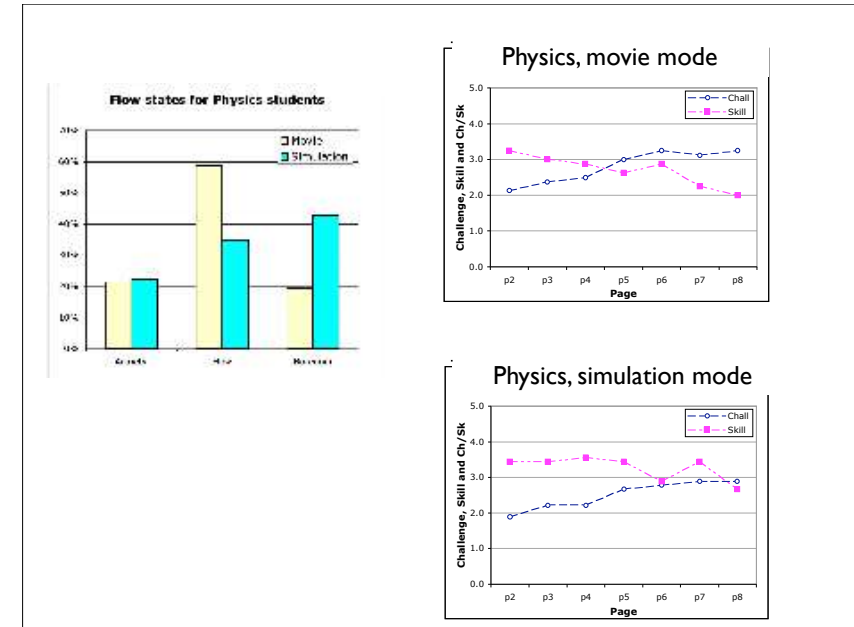
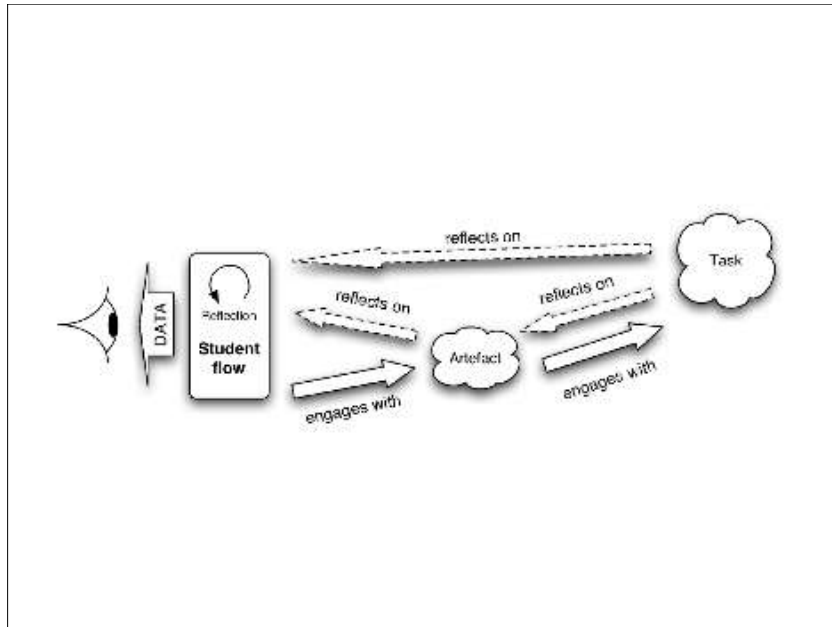




“learners”

“unlearners”





Challenges...

Retrofitting & separating

Brain space

Regrets...

Writing lit review

Outcomes...

Mess & formalism