Learn to teach,
for goodness sake.

How RStudio certification is changing my teaching methods.

Mike K Smith, Pfizer R&D UK Ltd

This talk is for *YOU*...

- If you are looking for an R trainer and want to know what "RStudio certification" means

- If you are interested in becoming an RStudio certified trainer

- If you are creating training materials for others

An analogy: learning R and teaching others R is a bit like training for and running a marathon

I can DO this!
(first 100 yards)

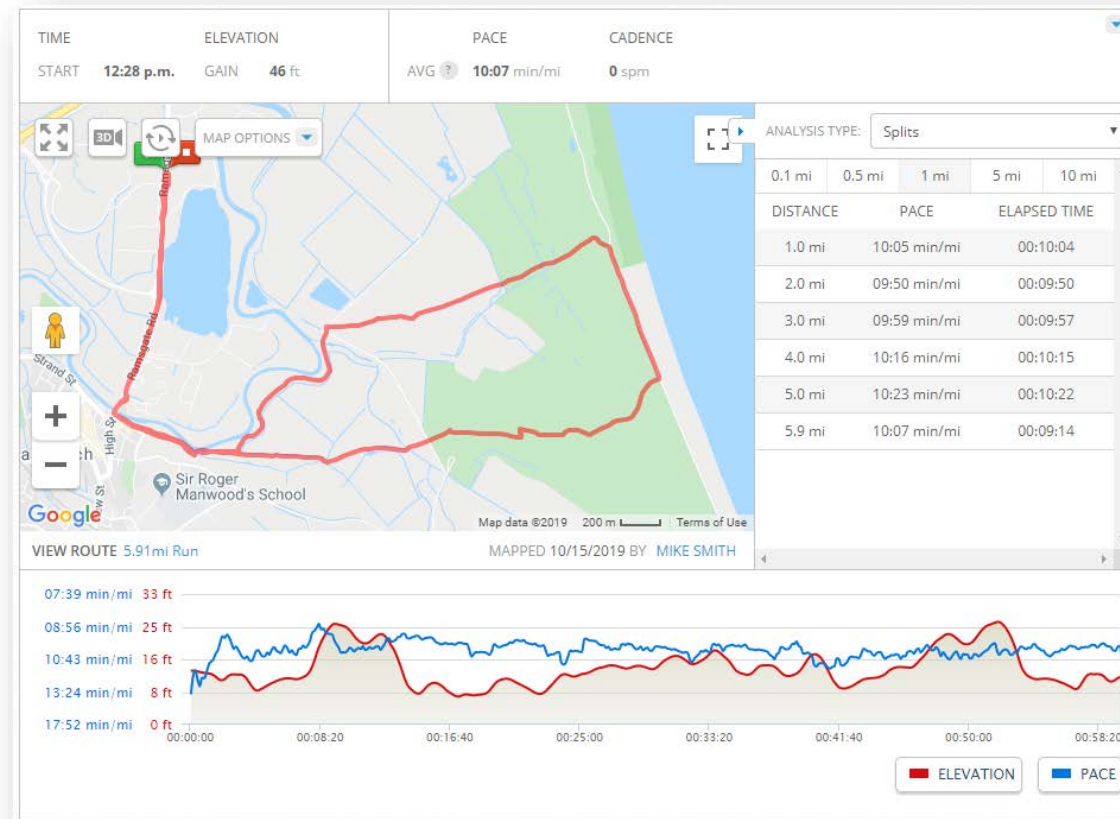OMG, why is
it SO HARD??
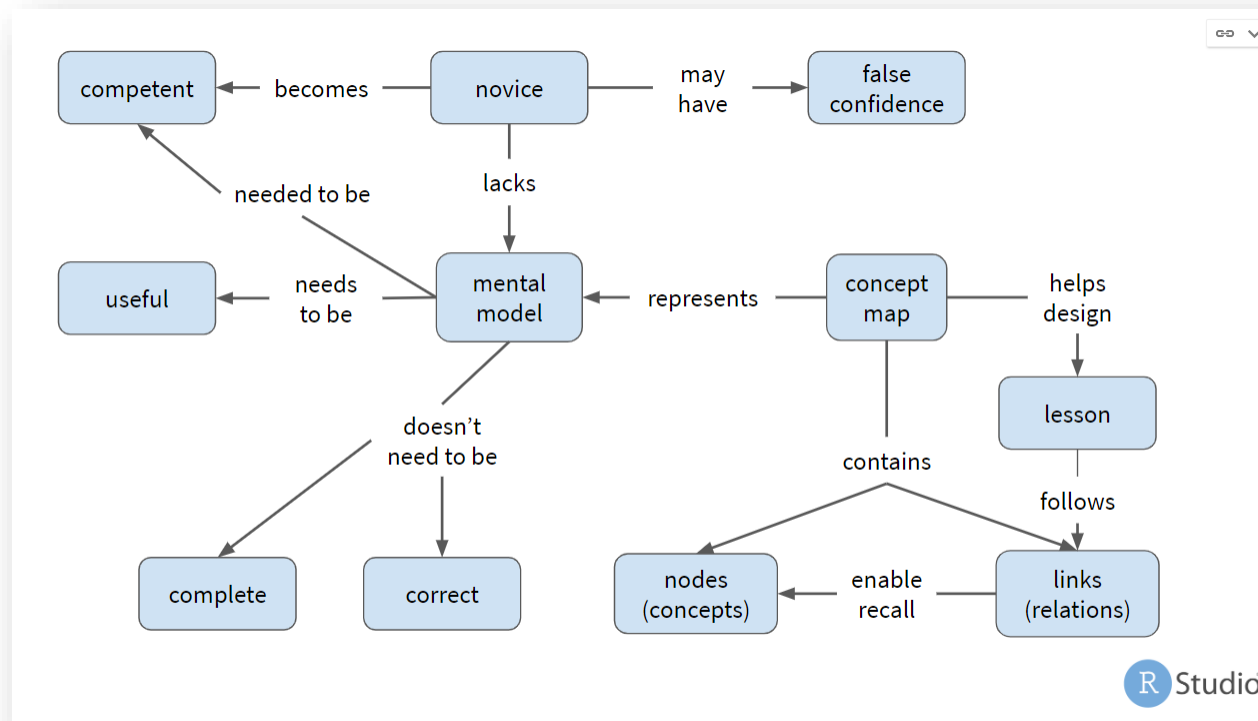(miles 8 - 26)

I DID IT!!
(last 100 yards)

There's more to teaching R than "simply" telling others how *YOU* do R…

Certification training has changed how I approach training others...

Plan your route: how far you are going, how long it will take.

Plan your training: how many topics are you covering, how concepts relate to each other.

Structure training to build on earlier training sessions…

Week 1	15 minutes jogging.	Rest	**20 mins jogging.**	Rest	Rest	**25 mins jogging.**	1 hour ramble
Week 2	25 mins jogging	Rest	**35 mins jogging**	Rest	Rest	**30 mins jogging**	75-min ramble
Week 3	30 mins jogging	Rest	**40 mins jogging**	Rest	Rest	**35 mins jogging**	90-min ramble
Week 4	35 mins jogging	Rest	**45 mins jogging**	Rest	Rest	**35 mins jogging**	1 hr jogging and walking.
Week 5	20-min run	Rest	**50 mins jogging**	Rest	Rest	Timed run over a 2M course	90-min ramble, or run in a 10K road race

Allow learners time to assimilate what you've taught and prepare for the next topic …

Week 1	15 minutes jogging.	*Rest*	20 minutes jogging.	*Rest*	*Rest*	25 minutes jogging.	1 hour ramble
Week 2	25 mins jogging	*Rest*	35 mins jogging	*Rest*	*Rest*	30 mins jogging	75-min ramble
Week 3	30 mins jogging	*Rest*	40 mins jogging	*Rest*	*Rest*	35 mins jogging	90-min ramble
Week 4	35 mins jogging	*Rest*	45 mins jogging	*Rest*	*Rest*	35 mins jogging	1 hr jogging and walking.
Week 5	20-min run	*Rest*	50 mins jogging	*Rest*	*Rest*	Timed run over a 2M course	90-min ramble, or run in a 10K road race

... and use planned assessments to check progress.

Week 1	15 minutes jogging.	Rest	20 minutes jogging.	Rest	Rest	25 minutes jogging.	1 hour ramble
Week 2	25 mins jogging	Rest	35 mins jogging	Rest	Rest	30 mins jogging	75-min ramble
Week 3	30 mins jogging	Rest	40 mins jogging	Rest	Rest	35 mins jogging	90-min ramble
Week 4	35 mins jogging	Rest	45 mins jogging	Rest	Rest	35 mins jogging	1 hr jogging and walking.
Week 5	20-min run	Rest	50 mins jogging	Rest	Rest	*Timed run over a 2 mile course*	90-min ramble, or run in a 10K road race

Each training session should help individuals attending towards achieving *their* goal.

Jacqui Ofalltrades

Exton Excel

Nang Newbie

https://github.com/rstudio-education/learner-personas
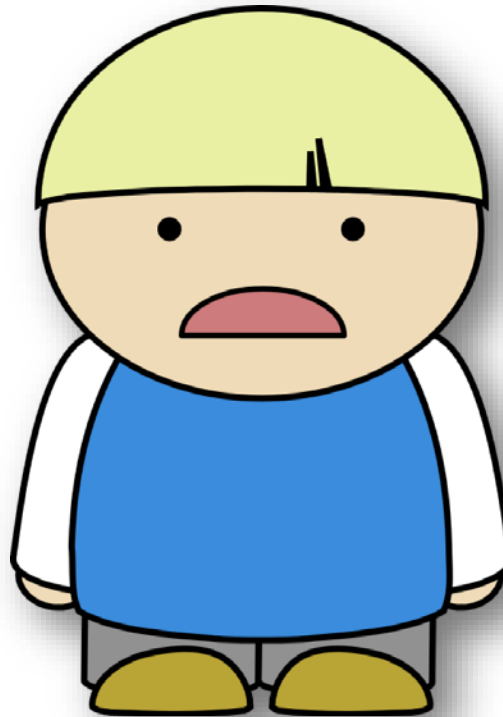
The first time you run a mile is a BIG deal.

It's easy to forget what it feels like to be a complete novice at R.

But by the time you can run for 6 miles, 3 miles is an "easy session".

Things that seem "trivial" to some are likely to seem "impossible" to others.

The journey - IDEAL

I can DO this!

Achieve THEIR goals

As quickly as possible

I DID IT!!

Find out more

- Find a certified trainer near you:
  - https://education.rstudio.com/trainers#people

- Become a certified trainer:
  - https://education.rstudio.com/trainers#info
  - Instructor training in February 2020. Contact Greg Wilson or Carl Howe at RStudio.

- RStudio Education material (CC-BY-SA license)
  - https://github.com/rstudio-education

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