Learning How To Learn

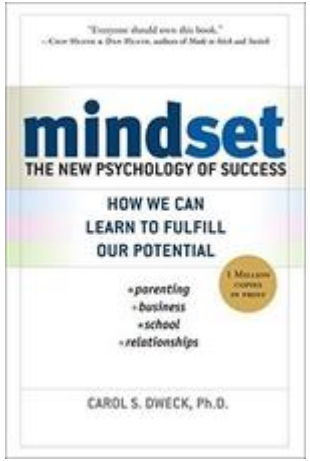
Jun Huh - Business Innovation and Growth

Introduction

- Independent to my NeSI role, I've always been obsessed with processes of learning and have been working on an online learning platform
- Frameworks to share
  - Mindset
  - Plateaus
  - Meta learning
  - Connectivism

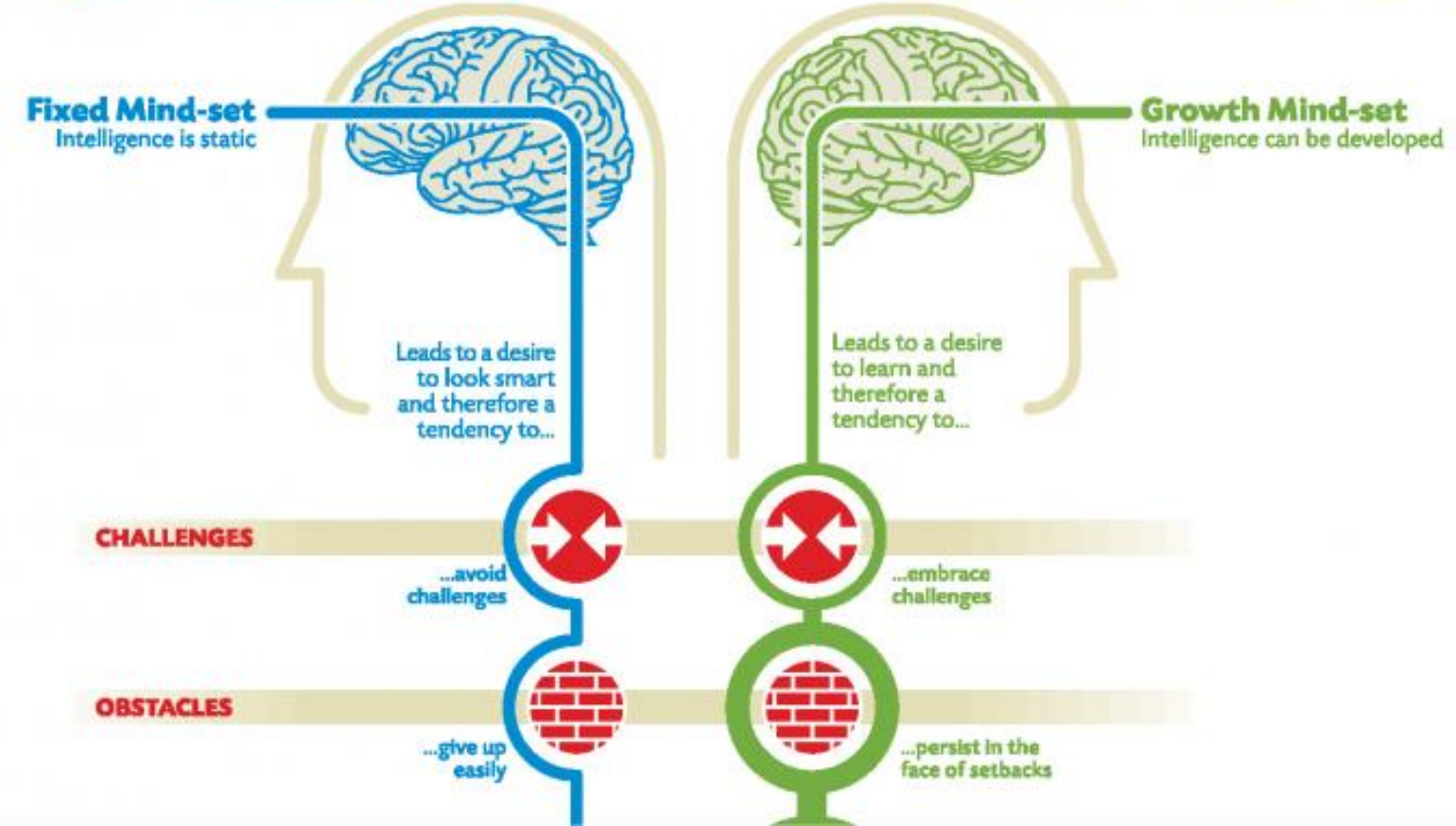
You can learn anything

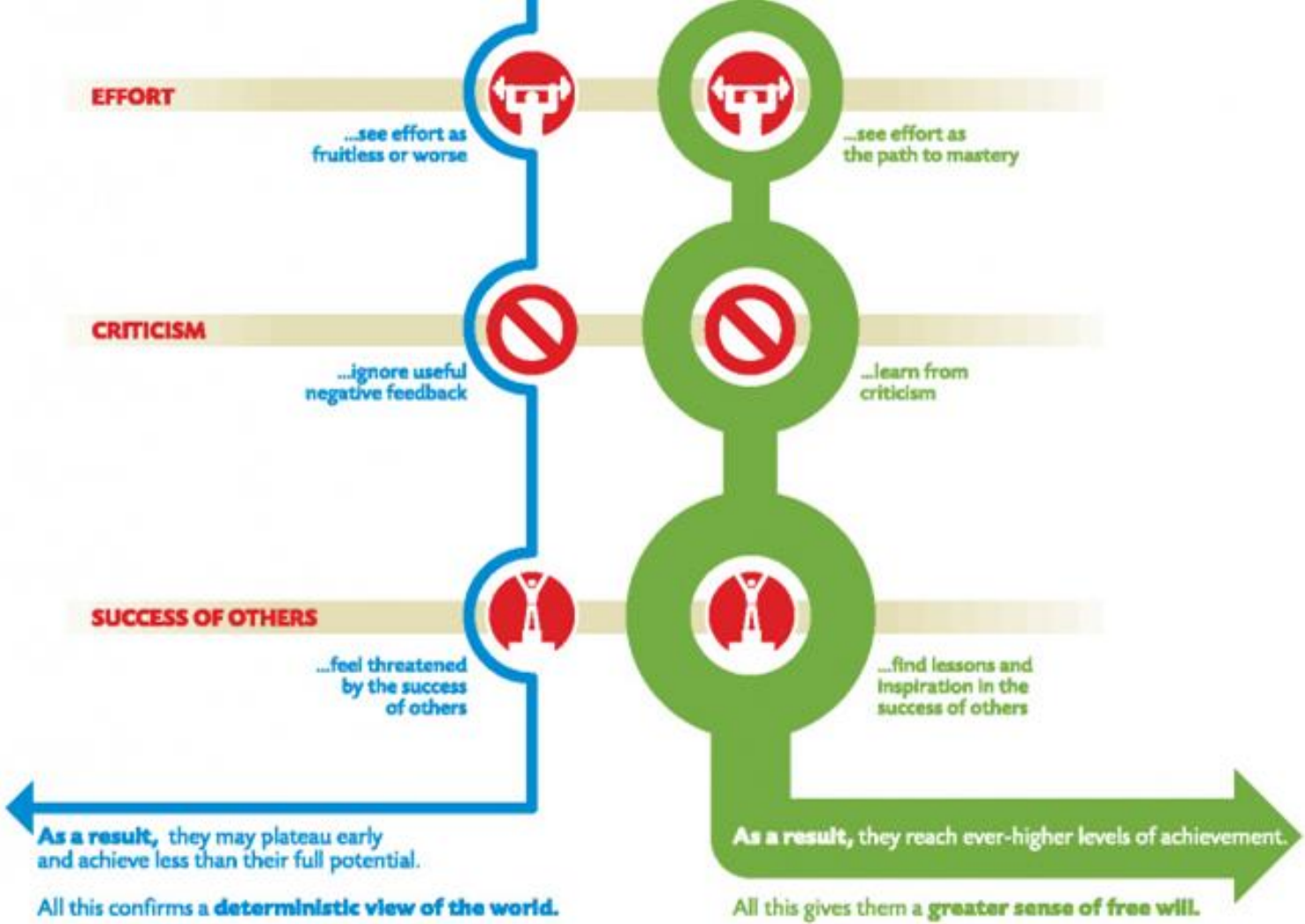
- Having the right mindset
- **Mindset** by Prof Carol Dweck (Psychology, Stanford)
- We fall between two ends of a spectrum
    - fixed mindset vs growth mindset



FIXED

GROWTH

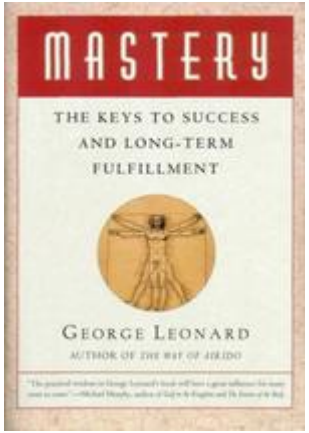




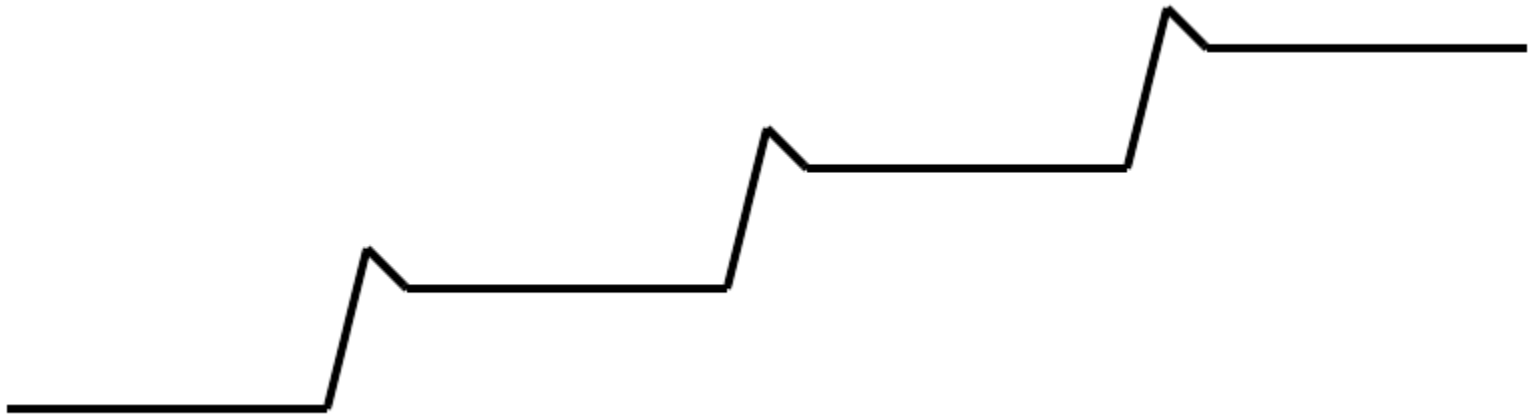
Infographic by Nigel Holmes

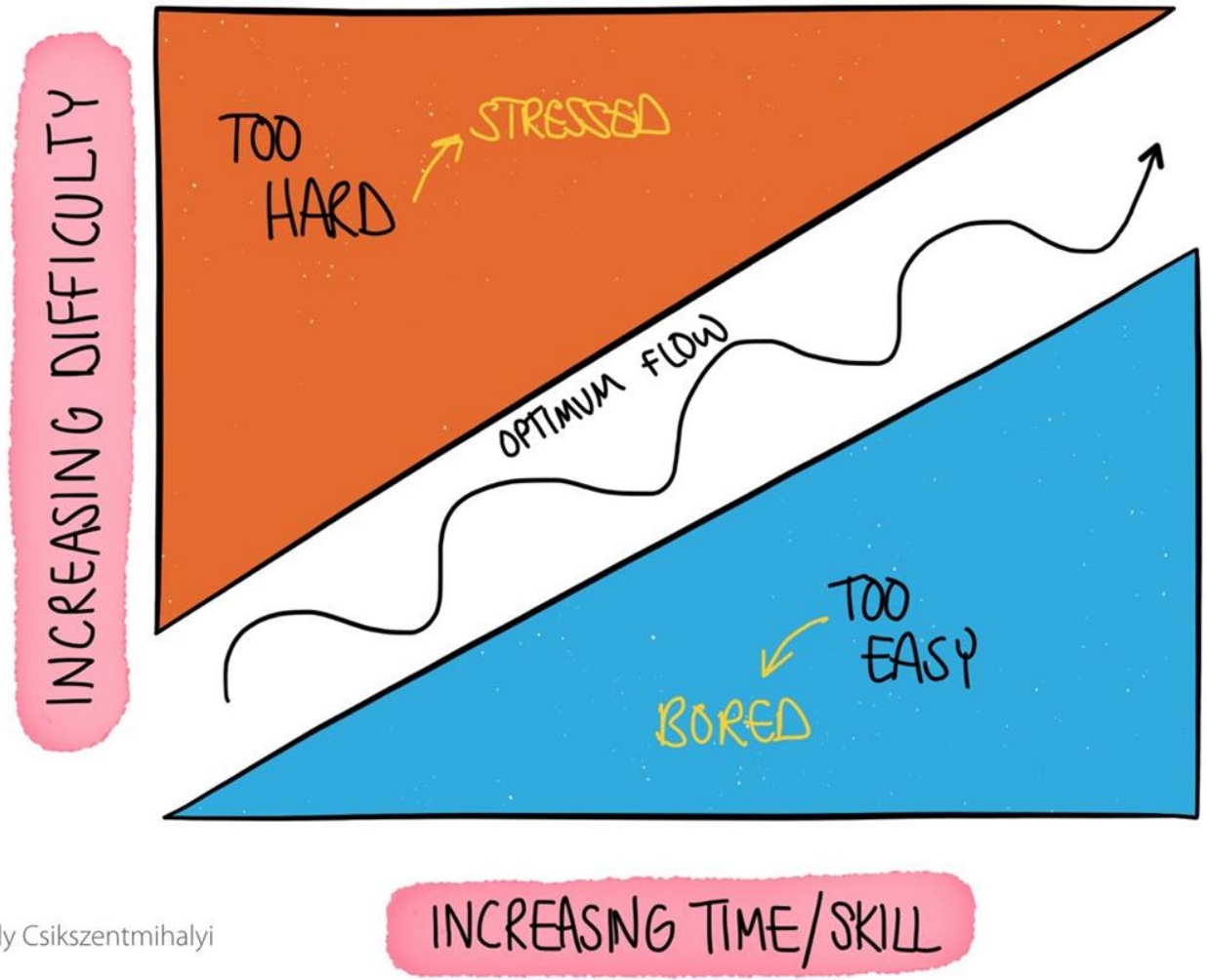
Journey to mastery

- **Mastery** by George Leonard (writer, educator)
- Plateaus
- Repetition
- Persistence with deliberate practice



Journey to mastery





Too hard? It's stressful

Too easy? It's boring

Just right = flow!

Mihaly Csikszentmihalyi

@ICTevangelist

Meta learning

- **Ultralearning** by Scott Young (father of Neil Young)

Understand	Memorise	Practice
Version control	Commonly used packages	Writing codes
Reusable codes	Basic Python syntax	Running in HPC environment
Utilising parallelisation		Debugging
Optimisation		

Learn with help of others

- **Connectivism** - Theory by Dr. George Siemens
- Augmented learning
- NeSI support
- Google skills

Never stop learning

NeSI @ eResearch NZ - Talks & Workshops:

Wednesday 12 Feb

1:30 - 1:50 pm - **Megan Guidry** - Training: It's better together

1:30 - 5:30 pm - **Chris Scott** - First steps in machine learning with NeSI

1:50 - 2:10 pm - **Callum Walley** - Engineering HPC: What's going on?

2:10 - 2:30 pm - **Marko Laban** - Cloud-native technologies in eResearch: Benefits & challenges

2:50 - 3:00 pm - **Jun Huh** - Learning how to learn

3:30 - 4:30 pm - **Megan Guidry** - Building and supporting a NZ digital literacy training community

3:30 - 4:30 pm - **Blair Bethwaite** - Research Cloud NZ

Thursday 13 Feb

11:00 - 11:20 am - **Wolfgang Hayek** - Singularity containers on HPC

11:00 am - 12:20 pm - **Brian Flaherty** - Building a national/regional data transfer platform: Globus BoF

1:30 - 1:50 pm - **Nick Jones** - Advancing New Zealand's computational research capabilities and skills

1:30 - 1:50 pm - **Jun Huh** - User journey-driven product management

1:30 - 5:30 pm - **Blair Bethwaite** - Containers in HPC tutorial

1:50 - 2:10 pm - **Brian Flaherty** - Where Data Lives: NeSI, taonga and growing repository services

Thursday 13 Feb (cont.)

1:50 - 2:10 pm - **Jeff Zais** - Worldwide trends in computer architectures for data science

2:10 - 2:30 pm - **Dinindu Senanayake** - HPC for life sciences: Handling the challenges posed by a domain that relies on big data

3:30 - 5:30 pm - **Jana Makar** - Growing the eResearch workforce in an inclusive way

Friday 14 Feb

11:20 - 11:40 am - **Alexander Pletzer** - Enhancing eResearch productivity with NeSI's consultancy service

1:30 - 3:40 pm - **Nooriyah Lohani** - Research Software Engineering (RSE) community update and next steps in New Zealand

Save the Date:

Science Coding Conference 2020
9 – 11 September 2020
Auckland, NZ

Call for Submissions open soon! Watch http://sciencecodingconference.nz for details