5

4

3

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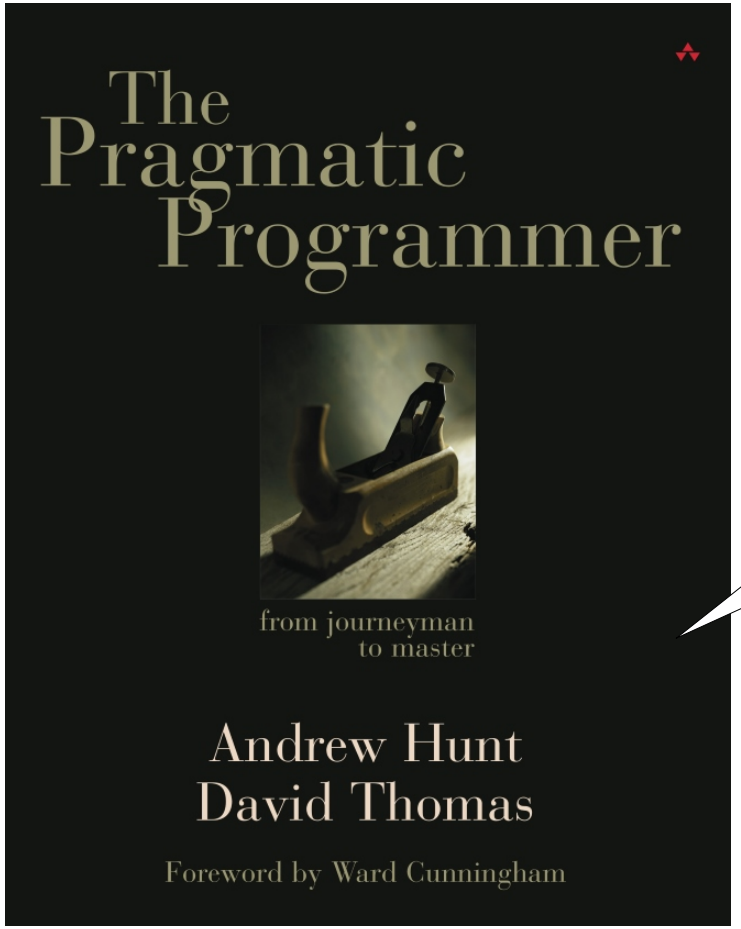
The Pragmatic Programmer



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Theoretical & evolutionary community ecology

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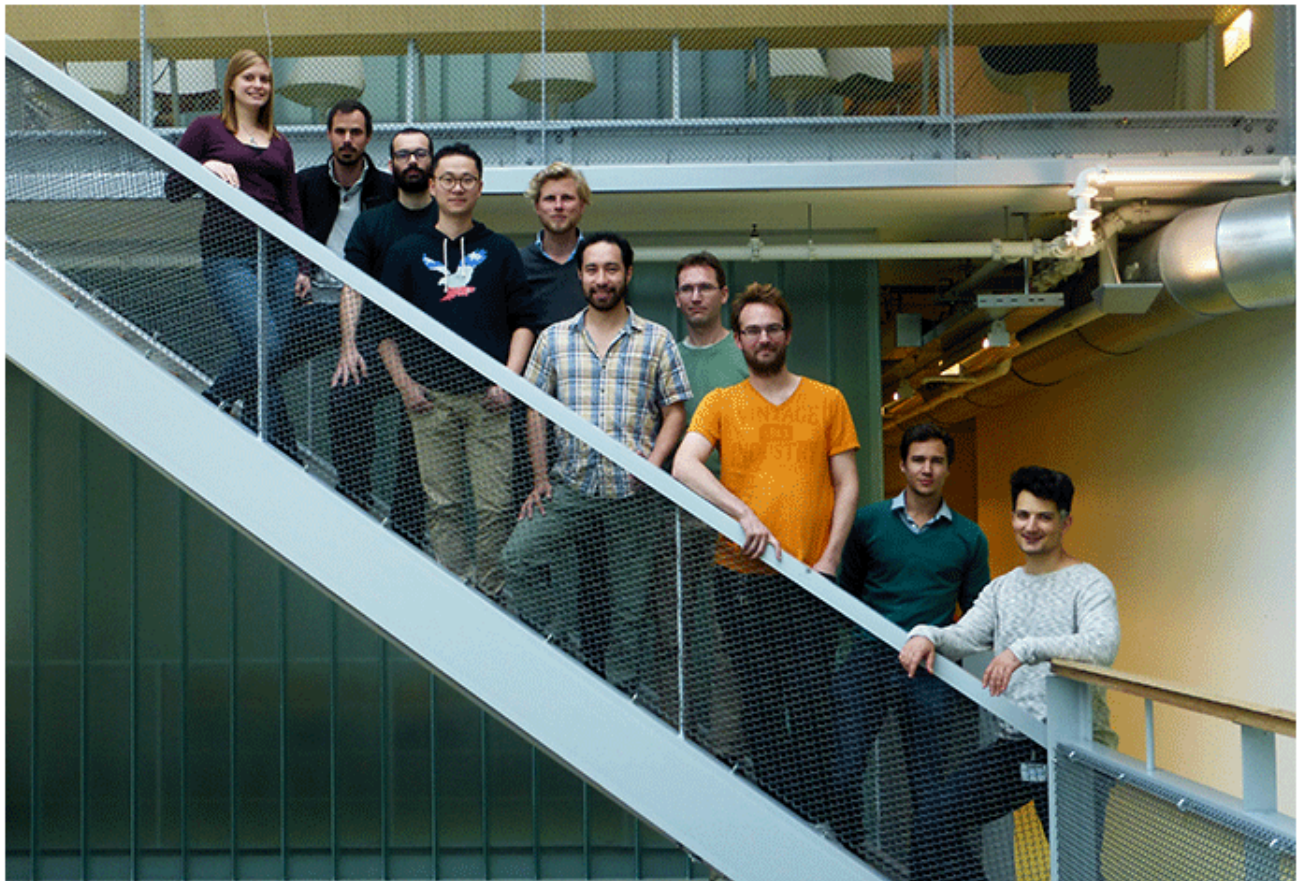
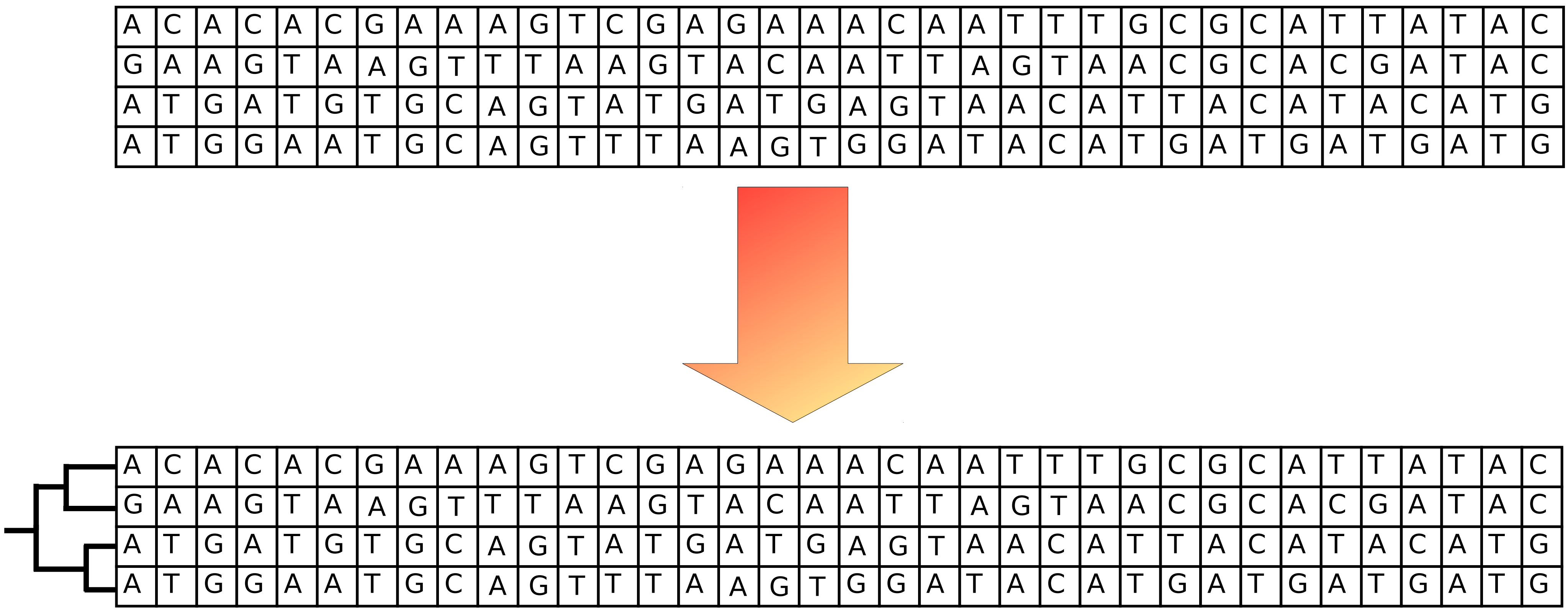
A major challenge in ecology is the need for a better theoretical framework for understanding how species assemblages (ecological communities) arise, why some are species-rich and others species-poor, and why some species are present or dominant whereas others are not.

Current community assembly theory is largely based on static models. However, ecological dynamics (e.g. ecological drift, competition, immigration), or evolutionary dynamics (e.g. genetic drift, natural selection, speciation) generate continual changes in the constituents of communities and the sources from which they are assembled. The dynamical models that do exist do not take the community perspective or do not readily allow inferences from data. Moreover, there is often a mismatch between models and data.

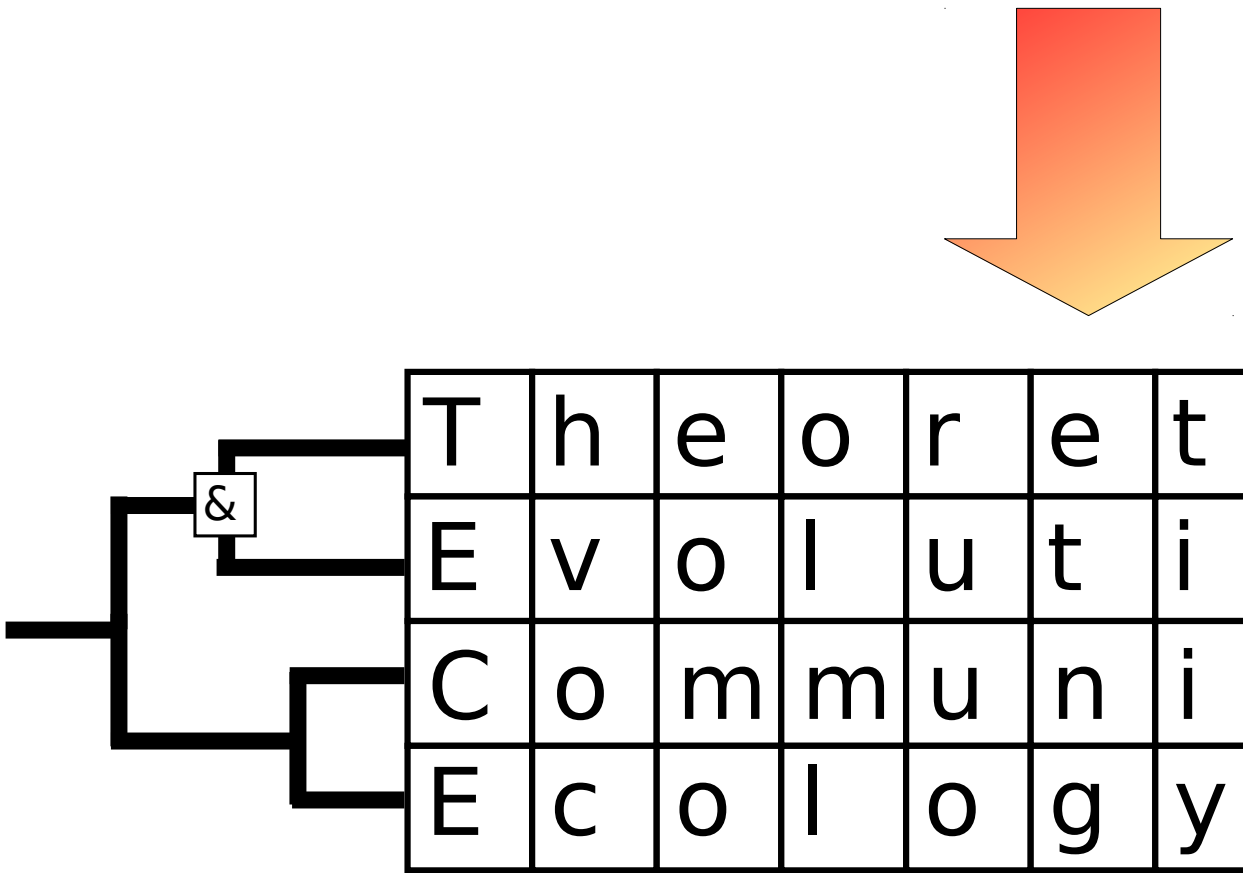


Our group

Part of what we do



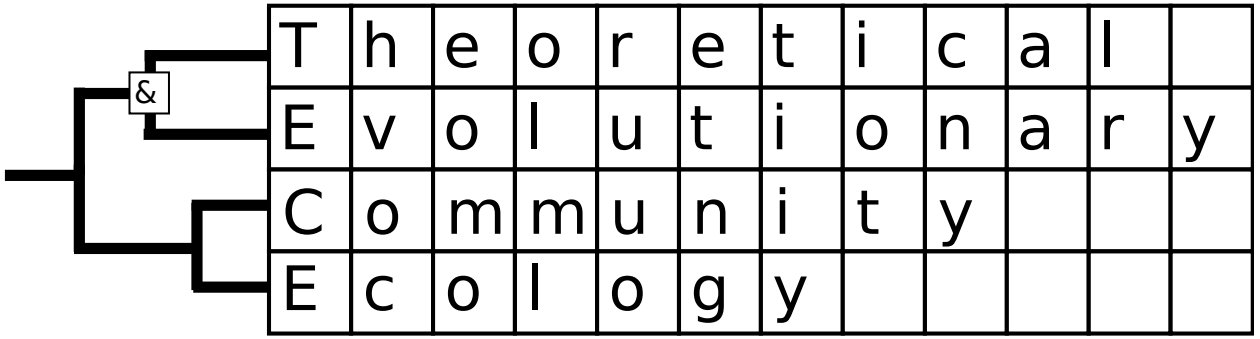
T	h	e	o	r	e	t	i	c	a	l	
E	v	o	l	u	t	i	o	n	a	r	y
C	o	m	m	u	n	i	t	y			
E	c	o	l	o	g	y					

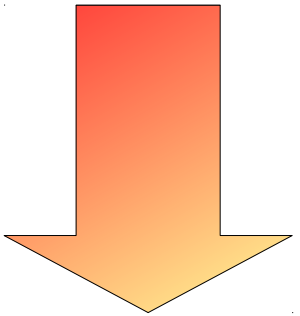


The genetic code

Amino acid	Codons
Ala/A	GCT, GCC, GCA, GCG
Arg/R	CGT, CGC, CGA, CGG, AGA, AGG
Asn/N	AAT, AAC
Asp/D	GAT, GAC
Cys/C	TGT, TGC
Gln/Q	CAA, CAG
Glu/E	GAA, GAG
Gly/G	GGT, GGC, GGA, GGG
His/H	CAT, CAC
Ile/I	ATT, ATC, ATA
START	ATG

Amino acid	Codons
Leu/L	TTA, TTG, CTT, CTC, CTA, CTG
Lys/K	AAA, AAG
Met/M	ATG
Phe/F	TTT, TTC
Pro/P	CCT, CCC, CCA, CCG
Ser/S	TCT, TCC, TCA, TCG, AGT, AGC
Thr/T	ACT, ACC, ACA, ACG
Trp/W	TGG
Tyr/Y	TAT, TAC
Val/V	GTT, GTC, GTA, GTG
STOP	TAA, TGA, TAG





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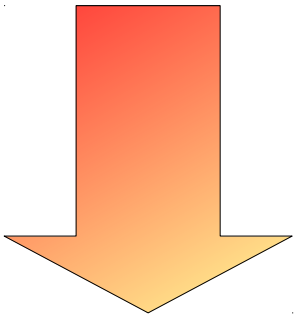
G	A	A	G	T	A				T	T	A				A	C	A	A	T	T				A	A	C	G	C	A	C	G	A	T	A	C	
T	G	C				A	T	G	A	T	G				A	A	C	A	T	T	A	C	A	T	A	C											
G	A	A	T	G	C				T	T	A				G	G	A	T	A	C																	



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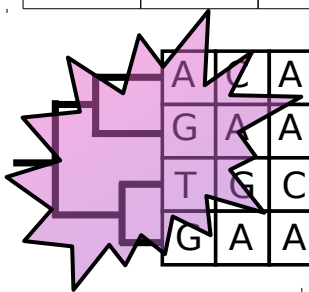

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T	G	C				A	T	G	A	T	G				A	A	C	A	T	T	A	C	A	T	A	C											
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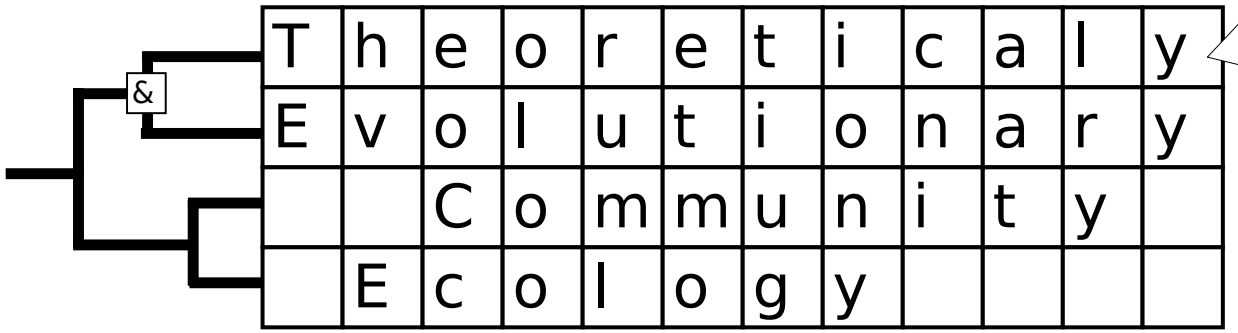
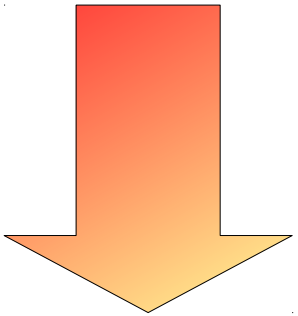


Added for alignment purposes



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						T	G	C				A	T	G	A	T	G				A	A	C	A	T	T	A	C	A	T	A	C			
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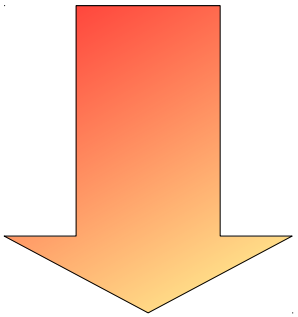
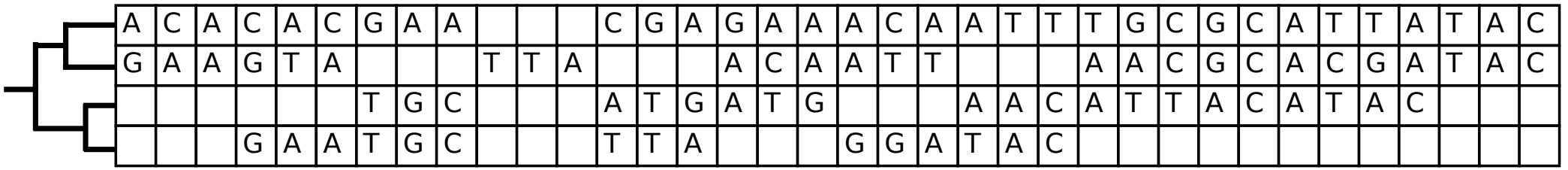
	25	29	30
		32	34
			21





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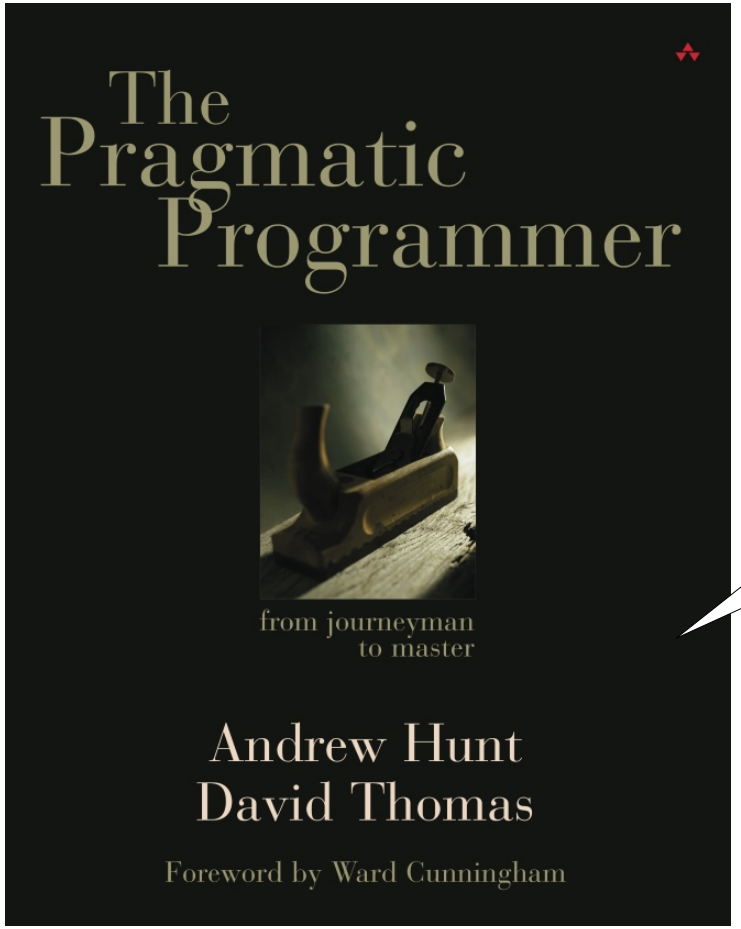

Sign your work

PhD project overview

TECE meeting 2016-11-03

www.github.com/richelbilderbeek/Science

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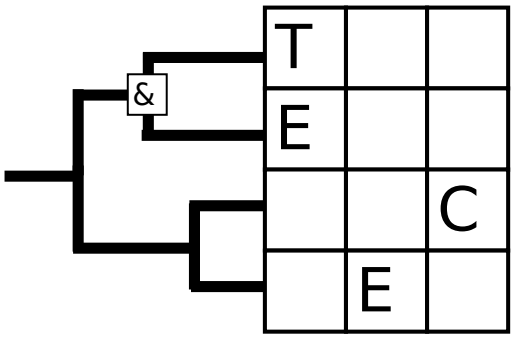

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