Functional Programming				Category Theory								
le	type	name	ste	ery	le	type	name	ste	ry			
0	concept	immutable data	~		0	concept	elemental mathematical proof techniques	V				
0	concept	second order functions	V		0	concept	sets and relations	V	х	MASTERY		
0	concept	constructing and destructuring	V		0	concept	elemental functions properties	V	х	Common	~	Concious
0	concept	function composition	V		0	concept	isomorphisms	V	х	Uncommon	~	Introduced
0	concept	first class functions and lambdas	V		0	concept	elemental categories concepts	V		Rare	~	Learnt
1	concept	algebraic data types	V		1	concept	monoids	V		Epic	V	Practiced
1	concept	pattern matching	V		1	concept				Legendary	·	Mastered
1	concept	parametric polymorphism	~		1	concept						
1	concept	general recursion	V		1	concept					х	work in progress
1	concept	referential transparency and totality	~		1	concept						
1	concept	higher-order functions	V		1	concept						
1	concept	partial application, currying and point free style	~									
1	concept	type classes	~		1	concept						
1	concept	lower order abstractions (equal, semigroup, monoid, etc.)	V	x	1	concept						
1	concept	laws and property based testing	V	х	1	concept						
2	concept	generalized algebraic data types	V									
2	concept	higher-kinded types	V									
2	concept	rank-n types	V									
2	concept	folds & unfolds	V									
2	concept	higher order abstractions (category, functor, monad)	~									
2	concept	basic optics	~									
2	concept	efficient persistent data structures	~									
2	concept	existencial types	V									
2	concept	embedded dsls using combinators	V									
3	concept	codata	V									
3	concept	(co)recursion schemes	V									
3	concept	advanced optics	V									
3	concept	dual abstractions (comonad)	V									
3	concept	monad transformers	~									
3	concept	free monads and extensible effects	~									
3	concept	functional architecture	V									
3	concept	advanced functors (exponential, profunctors, contravariant)	/									
3	concept	embedded dsls using GADTs, finally tagless	V									

3	concept	advanced monads (continuation, logic)	
3	concept	type families, functional dependencies	
4	concept	high-performance	
4	concept	kind polymorphism	
4	concept	generic programming	
4	concept	type-level programming	
4	concept	dependent-types, singleton types	
4	concept	category theory	
4	concept	graph reduction	
4	concept	higher-order asbtract syntax	
4	concept	compiler design for functional languages	
4	concept	profunctor optics	