Functional Programming				Category Theory						
Le	type	name	stery	16	et type	name	stery			
)	concept	immutable data	~	0	concept	elemental mathematical proof techniques	·			
	concept	second order functions	V	0	concept	sets and relations	V	MASTERY		
	concept	constructing and destructuring	V	0	concept	elemental functions properties	V	Common	V	Concious
	concept	function composition	V	0	concept	isomorphisms	V	Uncommon	V	Introduced
	concept	first class functions and lambdas	V	0	concept	elemental categories concepts	V	Rare	~	Learnt
	concept	algebraic data types	V	1	concept	monoids	V	Epic	~	Practiced
	concept	pattern matching	V	1	concept			Legendary	·	Mastered
	concept	parametric polymorphism	V	1	concept					
	concept	general recursion	V	1	concept					
	concept	referential transparency and totality	V	1	concept					
	concept	higher-order functions	V	1	concept					
	concept	partial application, currying and point free style	V							
	concept	type classes	V	1	concept					
	concept	lower order abstractions (equal, semigroup, monoid, etc.)	~	1	concept					
	concept	laws and property based testing	V	1	concept					
	concept	generalized algebraic data types	V							
	concept	higher-kinded types	V							
	concept	rank-n types	V							
	concept	folds & unfolds	V							
	concept	higher order abstractions (category, functor, monad)	~							
	concept	basic optics	V							
	concept	efficient persistent data structures	/							
	concept	existencial types	V							
	concept	embedded dsls using combinators	V							
	concept	codata	V							
	concept	(co)recursion schemes	V							
	concept	advanced optics	V							
	concept	dual abstractions (comonad)	/							
	concept	monad transformers	~							
	concept	free monads and extensible effects	'							
	concept	functional architecture	V							
	concept	advanced functors (exponential, profunctors, contravariant)	~							
	concept	embedded dsls using GADTs, finally tagless	V							

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