OUTLINE

1. Coq 8.8 Recap
2. Coq 8.9
3. Coq Future
4. Coq Consortium
5. Q & A
Coq 8.8 Schedule

- **Oct 2017**: 8.7.0 release
- **March 8 2018**: Beta 1
- **March 15 2018**: Feature freeze
- **April 16 2018**: 8.8.1 release
- **June 2018**: 8.8.0 release

**8.7.0 release**

**8.8.0 release**
Coq 8.8 Features

- Mangling of generated names mode
- Tacticals for profiling/timing tactics
- Universes: user-level enhancement (naming and printing) and more relaxed conversions.
- Notations with patterns, recursive notations improvements
- Porting documentation to Sphinx (help was very welcome!)
- … see CHANGES or
  
  https://github.com/coq/coq/releases/tag/V8.8.0

Active developer projects: Ltac 2.0, ELPI, SerAPI, Equations, JsCoq, …
Coq 8.9 Schedule

- April 2018: 8.8.0 release
- Sept 2018: Beta 1
- Nov 2018: Feature freeze
- Jan 2019: 8.9.0 release
Coq 8.9 features

- Mutually-recursive records
- User defined grammars / tables for notations
- Numeral Notations
- Diffs between proof steps in coqide/coqtop
- (Experimental) Attributes on commands
- Deprecations and removal of redundant features
In the Pipeline for Coq 8.10

- Checker refactoring
- String Notations
- Integration of camlp5’s engine (ml4 to mlg migration)
- Build system overhaul switching to Dune
- Combined Scheme in Type
- New intro patterns in SSReflect (+, =>>)
- Ltac 2 (talk this afternoon)
- Separation of parsing and execution
- Unifying unifiers
Coq Future

- Primitive integers (8.10) and arrays (later)
- Strict propositions
- Improved UI support (LSP server)
- Stdlib 2.0 (http://github.com/coq/stdlib2)
- Coq Package Index redesign
- Dune support for user developments
- Inductive-inductive/inductive-recursive types

Long term:

- Exceptional type theory?
- Type-based termination?
Development news

- Systematic use of PRs and consolidated CI infrastructure (open to submissions!)
- Decentralized merging process based on code owners
- Partial automation of the PR process using coqbot by Théo Zimmermann
- Launch of the coq-community project: https://github.com/coq-community

Come chat on gitter.im/coq/coq!
Coq Consortium

- Vincent Laporte was hired in September 2018
- Maxime and Vincent focus on making the system more accessible:
  - Redesign of the standard library
  - Easier deployment of Coq and its packages
  - Improved support for building User Interfaces
  - Documentation Infrastructure

- Feedback on your development priorities welcome!
Thank you!