Coq 8.*

- Coq 8.5 Recap
- Release Cycle
- Roadmap 8.6 & Highlights
Coq 8.5 Features

- Asynchronous proof processing, quick compilation
- New proof engine, backtracking, shelving
- Universe polymorphism
- Native compilation
Coq 8.6 Timeline

Time-based release cycle
Coq 8.6 Roadmap

• Discussed at Coq WGs, PRs on github, feedback welcome

• [https://coq.inria.fr/cocorico/CoqDevelopment/Roadmap86](https://coq.inria.fr/cocorico/CoqDevelopment/Roadmap86)

• ~150 PRs

• Many bug fixes and performance improvements
A Few Coq 8.6 Features

- State-of-the art universe checking algorithm (J. H. Jourdan)
- Backtracking typeclasses eauto (M. Sozeau)
- Intropatterns and tactic uniformization (H. Herbelin)
JsCoq Demo

Emilio Jesús Gallego Arias
Current Development Focus

- Work on documentation of dev. practices
- API design & stabilization
- Ease external contributions
- Creation of the Coq consortium
Breakout

• Ltac execution can be very, very slow (A. Chlipala)

• Towards Ltac 2.0 (P.-M. Pédrot)

• Typesetting tools and user documentation need some attention… (B. C. Pierce)