Gradualizing the Calculus of Inductive Constructions

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CPP ’21 – Lightning Talk
<table>
<thead>
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<th>What's this?</th>
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Ripe for CIC!
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Ripe for CIC!

Why would I want this in my favorite proof assistant?

Incremental development!

- Dependent types are HARD:
  \[\text{head} \_\_ (\text{filter} \_\_ \text{even} \ [0 \ ; \ 1 \ ; \ 2])\]
- ? is a wildcard *with a computational behaviour*
• Gentle introduction
What’s in the paper?

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- Unavoidable tension

The pre-print is on arXiv! (link on CPP website)
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- New type system, 3 variants
- Order models for CIC

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