

Agda,

a beautiful proof assistant

second part of the course Teoria dei tipi • begin April 29th, 2020 • by Ingo Blechschmidt

Agda is ...

- a programming language
- a proof language

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Agda N: Set where

Zero: N

Succ: N → N

add: N → N → N

add n Zero = n

add n (Succ k) = Succ (add n k)
```



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Agda is ...

- a programming language
- a proof language

With Agda you can ...

- ensure correctness of proofs
- practically explore type theory
- appreciate mathematics from a new point of view

"proving = programming"



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Agda is ...

- a programming language
- a proof language
- somewhat hard to learn on one's own
- **1 fun and easy** to learn as part of a course

With Agda you can ...

- ensure correctness of proofs
- practically explore type theory
- appreciate mathematics from a new point of view

"proving = programming"