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# Let's Move

## Hidden Features and Traps of C++ Move Semantics

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Meeting C++ 2020

**C++ Move**  
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IT communication

### Agenda

Implement and test a

**class Email**

representing email addresses

having good performance

## Lessons Learned

- **For expensive members**
  - Initializing constructors **take by value and move ()**
  - Overload getters for **&&** and **const&**
- **Moved-from objects**
  - are **nothing special** for the C++ standard library
    - Functions/algorithms use them as other objects
  - should not break **invariants**
    - Ideally in a "valid but unspecified state"
- **To disable move semantics =default other special members**
  - **breaks naive "Rule of 5"**
- Use **noexcept** when implementing special move members
- **Universal/forwarding reference** might not `std::forward<>()`


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## Take Care



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