Building An Elixir Package

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Preliminaries

- Cellphone
- Questions

What We’ll Discuss

- A Little Background On Elixir
- What We Want In Common Code
- How Elixir Implements What We Want In Common Code

Erlang And Elixir

- The Use Case
    - What does the use case entail?

Erlang And Elixir

- What doesn’t scale:
  - Shared stuff
  - Overly fragile processes

The Problem

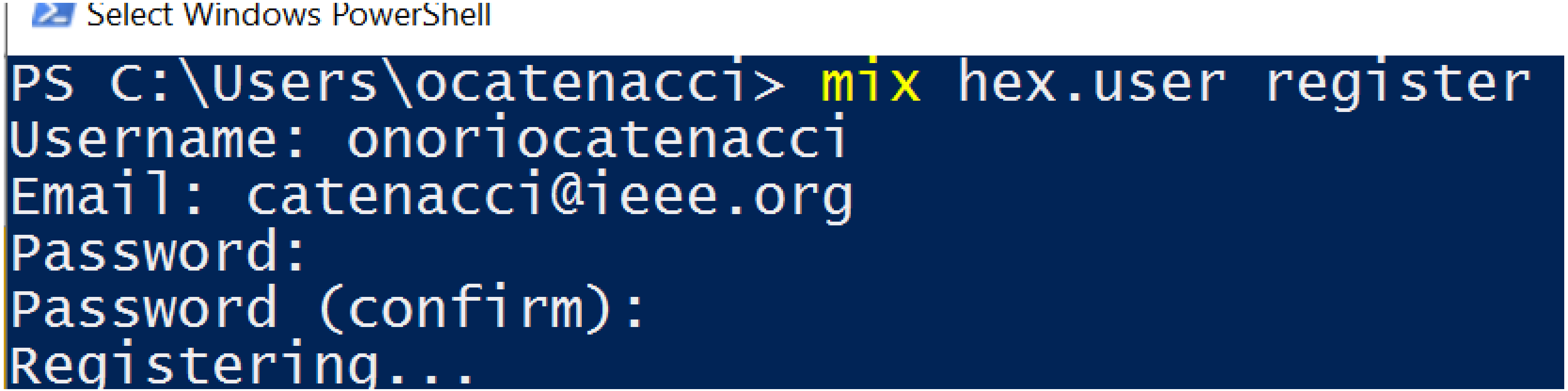
Spaces And Long Names

What Does Good Common Code Look Like?

- Secure
- Documented
- Tested
- Versioned
- Ease of install/uninstall

Secure

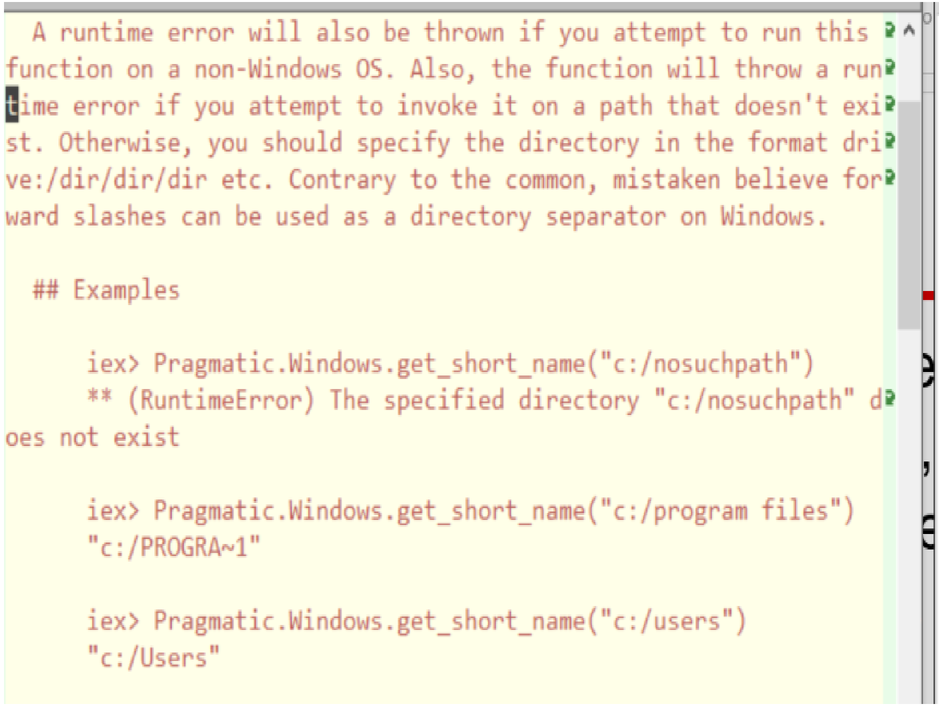
- API Key
- mix hex.user register
- mix hex.user auth



```
PS C:\Users\ocatenacci> mix hex.user register
Username: onoriocatenacci
Email: catenacci@ieee.org
Password:
Password (confirm):
Registering...
```

Documented

- Path of least resistance
- Easy to create, easy to revise
- Insure docs are up to date



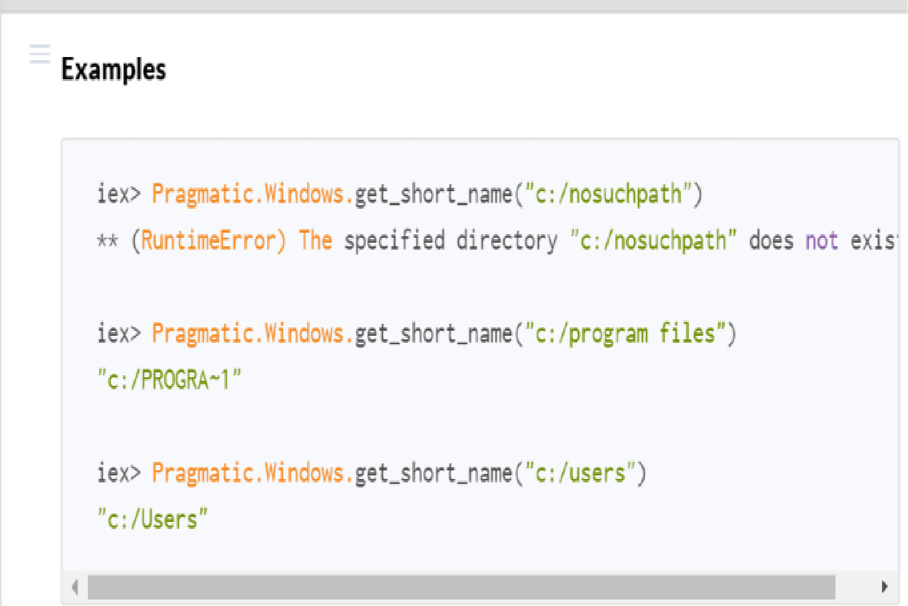
```
  A runtime error will also be thrown if you attempt to run this function on a non-Windows OS. Also, the function will throw a runtime error if you attempt to invoke it on a path that doesn't exist. Otherwise, you should specify the directory in the format drive:/dir/dir/dir etc. Contrary to the common, mistaken believe forward slashes can be used as a directory separator on Windows.

  ## Examples

      iex> Pragmatic.Windows.get_short_name("c:/nosuchpath")
      ** (RuntimeError) The specified directory "c:/nosuchpath" does not exist

      iex> Pragmatic.Windows.get_short_name("c:/program files")
      "c:/PROGRA~1"

      iex> Pragmatic.Windows.get_short_name("c:/users")
      "c:/Users"
```



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Tested

- Unit tests
- Type checking

Versioned

- Need to be able to identify version for issues
- Want the user to always pick up the most recent version but also be able to go back to prior versions if needed.
- ~>

Ease Of Install/Uninstall

- Ideal: only install for project(s) I need it for

In Sum

- Elixir and the Hex.pm toolkit
- Dialyzer
- Semantic Versioning

Questions?