Connascence in Elixir

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con (together)
+
nascence (birth)

Types of Connascence

Degree

- Name
- Type
- Meaning
- Position
- Algorithm

Examples

Connascence of Name

```elixir
defmodule ElixirLDN do
  def hello do
    IO.puts "Hello!"
  end
end
```

Connascence of Name

```
iex(1)> ElixirLDN.hello
Hello!
:ok
iex(2)> ElixirLDN.sup
** (UndefinedFunctionError) function ElixirLDN.sup/0 is undefined or private
    ElixirLDN.sup()
```

Connascence of Name

```
defmodule ElixirLDN do
  def greetings do
    IO.puts "Hello!"
  end
end

iex(1)> ElixirLDN.hello
** (UndefinedFunctionError) function ElixirLDN.hello/0 is undefined or private
    ElixirLDN.hello()
```

Connascence of Position

```elixir
defmodule ElixirLDN do
  def build_my_user(name, favourite_food, favourite_music, phobia) do
    IO.puts "#{name} likes to eat #{favourite_food}," <>
    " enjoys listening to #{favourite_music}," <>
    " and is afraid of #{phobia}."
  end
end
```

Connascence of Position

```
iex(1)> ElixirLDN.build_my_user("Sean", "curry", "opera", "spiders")
Sean likes to eat curry, enjoys listening to opera, and is afraid of spiders.
:ok
```

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Connascence of Position

```
defmodule ElixirLDN do
  def build_my_user(name, favourite_music, phobia, favourite_food) do
    IO.puts "#{name} likes to eat #{favourite_food}," <>
    " enjoys listening to #{favourite_music}," <>
    " and is afraid of #{phobia}."
  end
end
```

Connascence of Position

```
iex(1)> ElixirLDN.build_my_user("Sean", "curry", "opera", "spiders")
```

Connascence of Position

```
iex(1)> ElixirLDN.build_my_user("Sean", "curry", "opera", "spiders")
Sean likes to eat spiders, enjoys listening to curry, and is afraid of opera.
:ok
```

Converting strong connascence to weaker forms
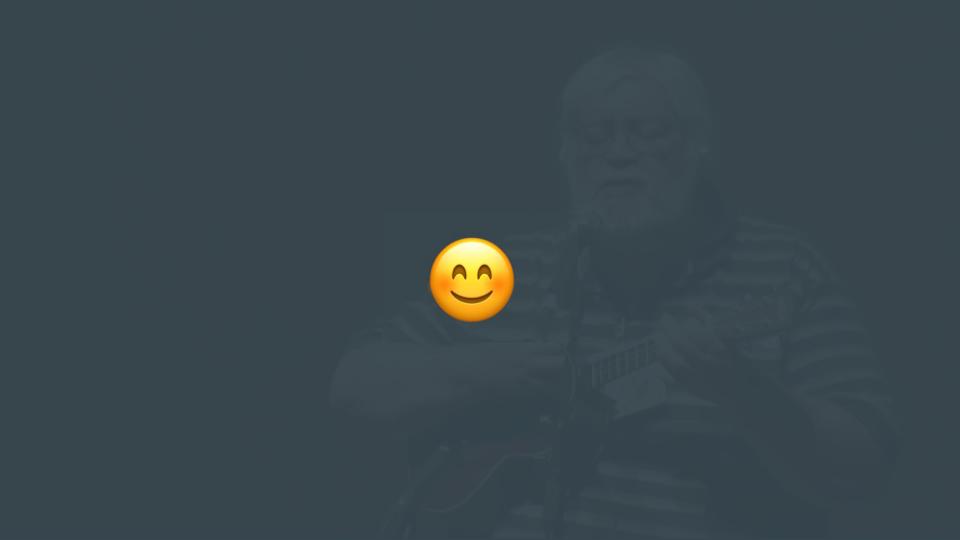
Connascence of Algorithm

```elixir
defmodule ElixirLDN do
  def process_animals(file) do
    file |> File.read |> XML.parse |> organize_by_legs
    # ...
  end

  def process_plants(file) do
    file |> File.read |> XML.parse |> organize_by_leaf_type
    # ...
  end
end
```

Connascence of Algorithm

```elixir
defmodule ElixirLDN do
  defp load_file(file) do
    file |> File.read |> XML.parse
  end

  def process_animals(file) do
    load_file(file) |> organize_by_legs
    # ...
  end

  def process_plants(file) do
    load_file(file) |> organize_by_leaf_type
    # ...
  end
end
```

Connascence of Algorithm

```elixir
defmodule ElixirLDN do
  defp load_file(file) do
    file |> File.read |> JSON.parse
  end

  def process_animals(data) do
    load_file(file) |> organize_by_legs
    # ...
  end

  def process_plants(file) do
    load_file(file) |> organize_by_leaf_type
    # ...
  end
end
```

😊

connascence.io

https://vimeo.com/10837903

seanhandley.com/files/connascence.pdf

That's all, folks!

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