

# Stop Writing So Much Code



Coding is hard  
You are bad at it  
**I am monumentally lazy**

# Writing code leads to errors

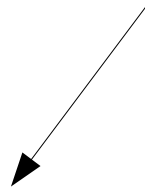
Bugs

Doing things the wrong way



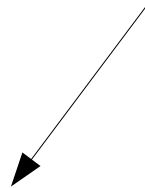
```
sum(x, y)
{
    return(x+y)
}
```

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{
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}
```



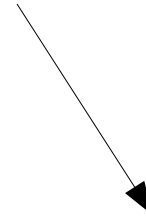
```
public float sum(float x, float y)
{
    return(x+y);
}
```

```
sum(x, y)
{
    return(x+y)
}
```



Java" C" C##" \$as%ell

```
public float sum(float x, float y)
{
    return(x+y);
}
```



&uby" 'ython" 'erl" &" (avascript

```
sum_floats(x, y)
{
    if ! x.istype( float )
        raise
    if ! y.istype( float )
        raise

    return(x+y)
}

try
    sum(!.", #.$)
catch
    brea%
```





) ary Bernhardt

https\*++ ! ! ! ,destroyalso t ! are,com+tal%s+ ! at

# Willingly - oing . hings Badly

Choosing to get involved in things you know nothing about

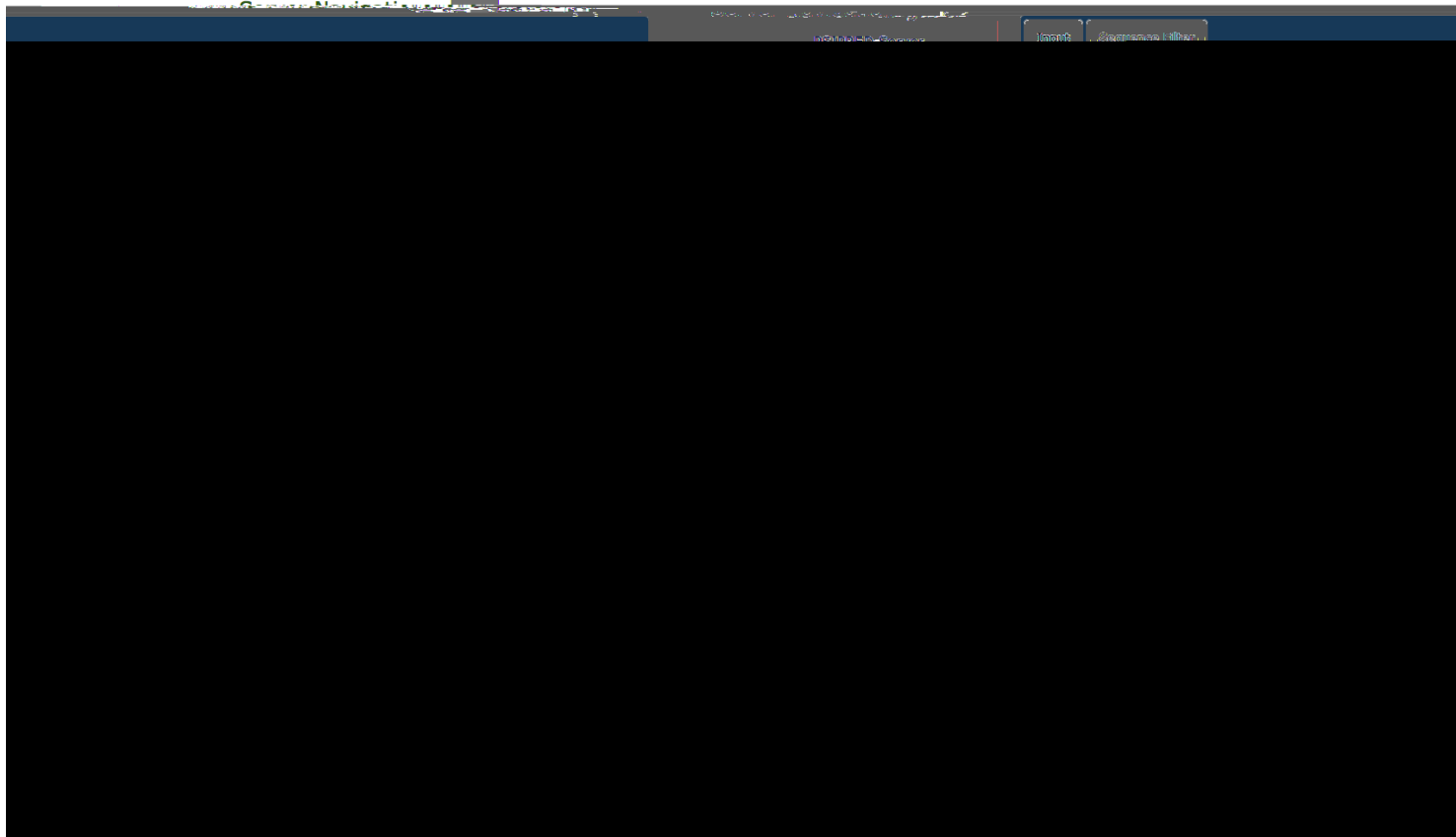
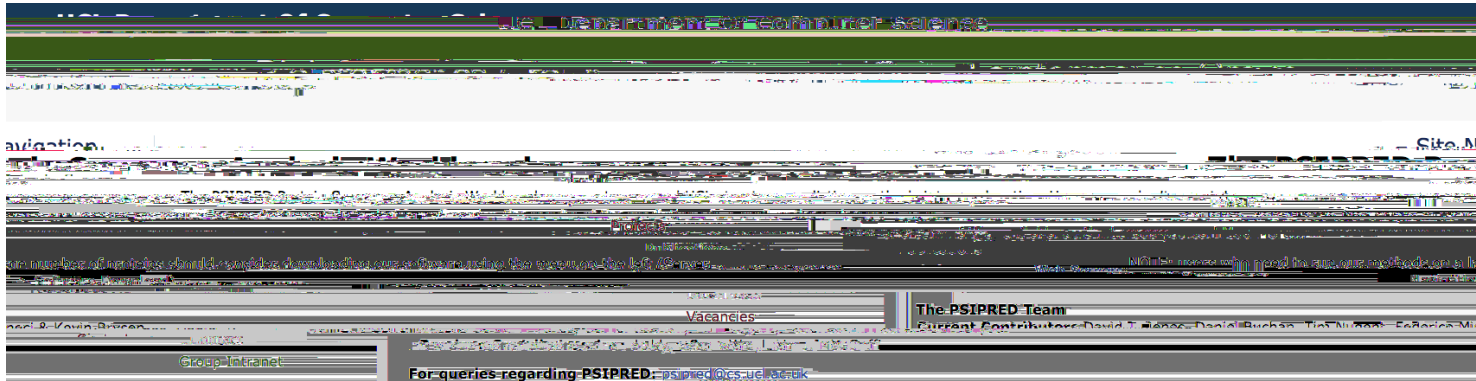
Choosing the wrong language technology

. hings that never save time

Someone else has done it before you

. he solution is in a book% you've not bothered to open or even heard of

# .errible .hing 34



We %no ! nothing about 5ueuing1111

# Alternatives

- R bbi Q/Celer
- Beanstal%d
- ) rid6ngine
- Apache \$adoop
- Apache Spar%
- ''

# Writing code leads to errors

Bugs

Doing things the wrong way

# Solution

! et other people do the work for you

"while you get the credit#\$



7 of Invented Sere Syndrome

. the re(ection o other/s ! or% in avour o doing it  
yourself

8eading to 9

# Why reinvent:

- ) eneral distrust o other/s ! or%
- ; ncertainty o uture availability
- ; na ! are o ! hat is available

} 6<ternal



.errible .hing 3>

I have !ritten an <= old validation library in ' 6&8

& \* Caret

'ython \* Sci%it=8earn

Matlab

Mathematica

''

# Why reinvent:

- 
- 
- 
- Coding is un1
- &eading docs is boring
- Bad at estimating
- Smart people li%e a challenge
- 

Coding1

&eading



Internal

# Why reinvent:

- General - distrust of other/s or%
- ; uncertainty of future availability
- ; naive are of what is available
- Coding is un1
- Reading docs is boring
- Bad at estimating
- Smart people like a challenge
- Subris1



.hings .hat 6<ist



 Data-Driven Documents





# Benefit of letting others do the ! or%

- You write less code
  - c, , coding is hard and buggy
- It's 5x easier to read the docs than build it yourself
- They are the experts
- You can concentrate on the domain of your problem (and not on issues you know nothing about)
- You get to spend more time with puppies and kittens

.errible .hing 3A

I once tried to use Bio ' 6&8

# Benefit of letting others do the ! or%

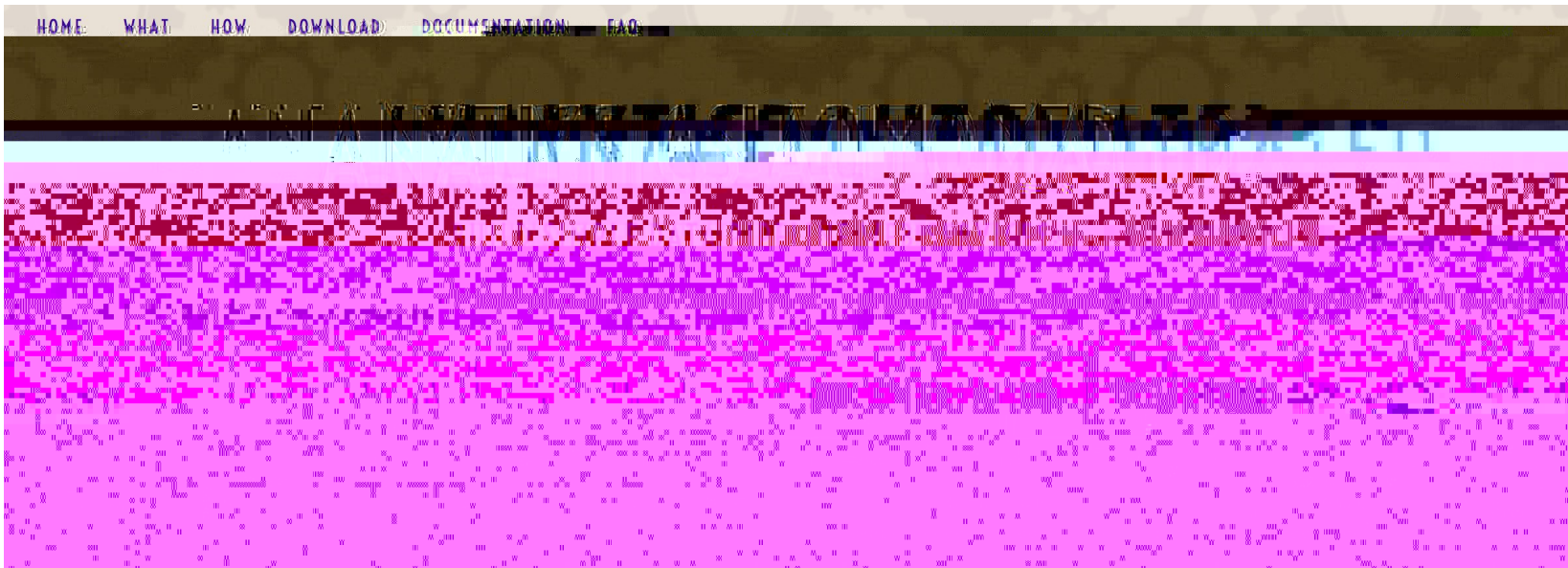
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; sing other/s ! or%

4BBBs lines o Java



CBB lines o 'ython



<http://analyticsautomated.github.io>

# \$o ! do I avoid ! riting code :

- .he - o ! nload and learn
  - )reat CD odder
- Erame ! or%sF al ! ays try to reduce your problem to one o con igation
- Better ! or% lo !
  - 8anguage
  - I - 6 \* 6clipse+7etbeans+Atom+Sublime .e<t>+Di+6macs
- Wor% ! ith others
- Code revie !
- .ests1
- ) oodbye GM8



# In Summary

Less Code HH Less Bugs

Less Code HH Easter development

- don't make the same mistakes I have