RUBY QUICKSTART BOOTCAMP

PLEASE FEEL FREE TO INTERRUPT AND ASK QUESTIONS!

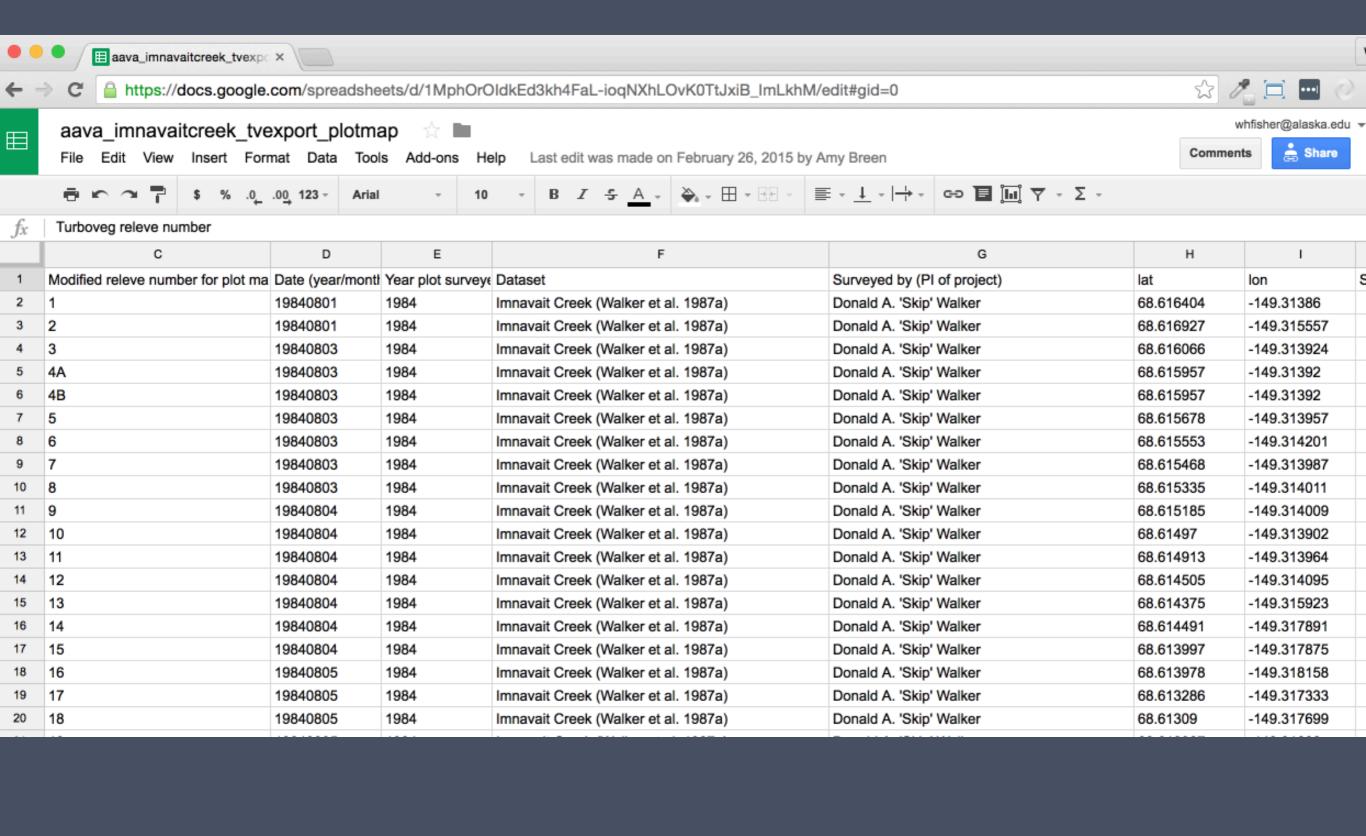
HTTPS://WWW.RUBY-LANG.ORG/EN/DOCUMENTATION/QUICKSTART/

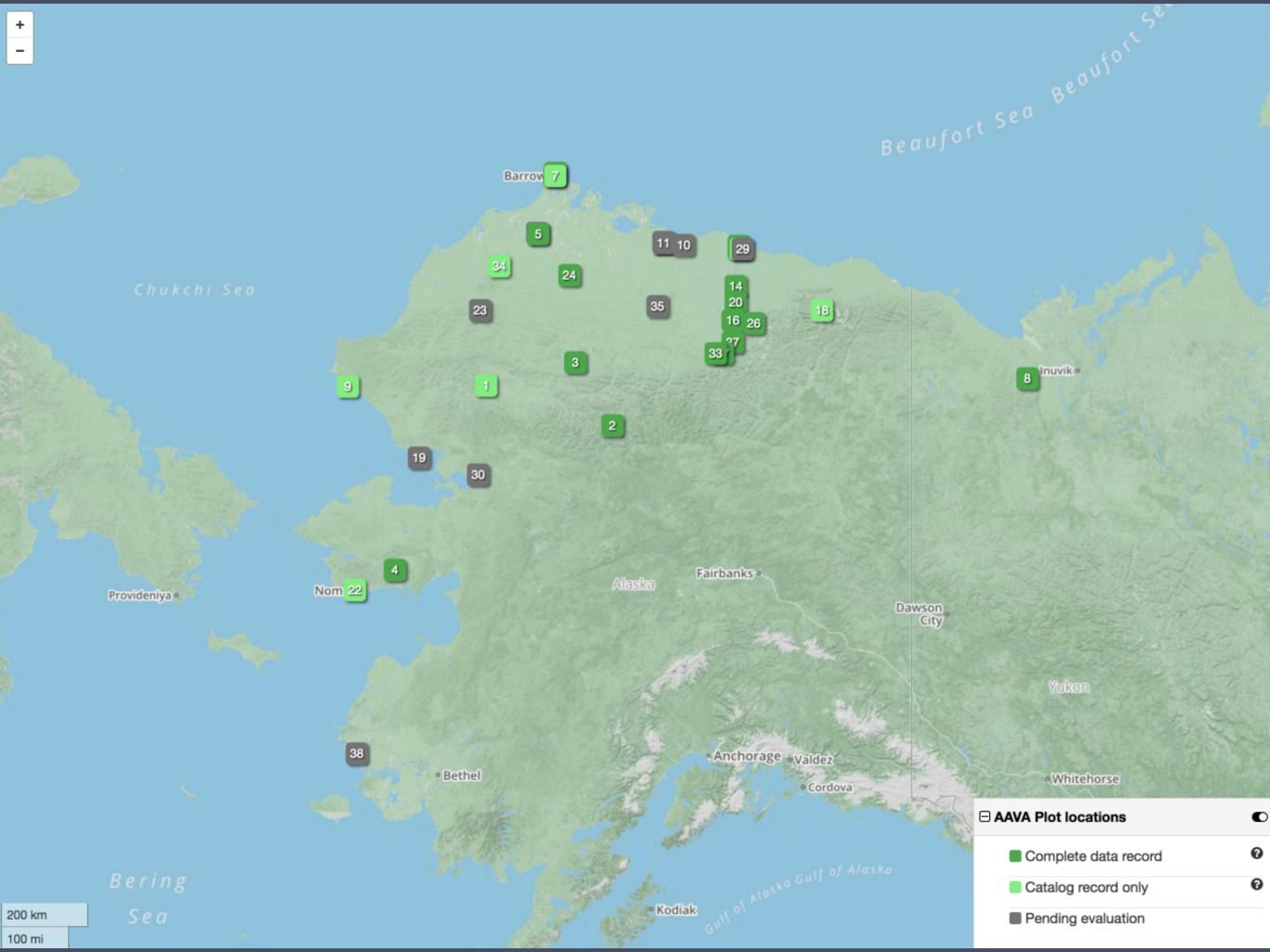
GETTING MORE HELP
HTTP://APIDOCK.COM/RUBY

YAK SHAVING

ANY APPARENTLY USELESS ACTIVITY WHICH. BY ALLOWING YOU TO OVERCOME INTERMEDIATE DIFFICULTIES. **ALLOWS YOU TO** SOLVE A LARGER PROBLEM.







HOW WOULD YOU DO THAT?

```
~/gits/aava-datasets/AAVA_Datasets_Grouped > / master • > yak aava
ogr2ogr -sql 'select distinct group from AAVA_Datasets_Grouped' -f csv /vsistdout/ AAVA_Datasets_Grouped.vrt
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='0' AAVA_Datasets_Grouped_0.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_0.geojson
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='1' AAVA_Datasets_Grouped_1.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_1.geojson
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='3' AAVA_Datasets_Grouped_3.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_3.geojson
                                                                                                  ts_Grouped.vrt
ogr2ogr -t_srs EPSG:4326 -f Ged
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                                  'AAVA_Dat
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ogr2ogr -t_srs EPSG:4326 -f Ged
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/Users/wfisher/gits/aava-datase
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                                             oup='13'
ogr2ogr -t_srs EPSG:4326 -f Ged
                                  N -where
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ogr2ogr -t_srs EPSG:4326 -f Ged
                                  )N -where
                                             oup=
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                                                                                              Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datase
                                  'AAVA_Dat
                                                                       _Groupe
                                                                                       on
                                  N -where
ogr2ogr -t_srs EPSG:4326 -f Ged
                                                                                              Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_21.geojson
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='25' AAVA_Datasets_Grouped_25.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_25.geojson
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='27' AAVA_Datasets_Grouped_27.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_27.geojson
ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='31' AAVA_Datasets_Grouped_31.geojson AAVA_Datasets_Grouped.vrt
/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_31.geojson
```

ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='34' AAVA_Datasets_Grouped_34.geojson AAVA_Datasets_Grouped.vrt

ogr2ogr -t_srs EPSG:4326 -f GeoJSON -where group='36' AAVA_Datasets_Grouped_36.geojson AAVA_Datasets_Grouped.vrt

/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_34.geojson

/Users/wfisher/gits/aava-datasets/AAVA_Datasets_Grouped/AAVA_Datasets_Grouped_36.geojson

~/gits/aava-datasets/AAVA_Datasets_Grouped > / master •

QUICK INTRODUCTION TO RUBY

RUBY COMES WITH A PROGRAM THAT YOU CAN USE TO RUN CODE 'ON THE FLY'. IT'S CALLED irb AND STANDS FOR INTERACTIVE RUBY

- > IF YOU'RE USING WINDOWS OPEN INTERACTIVE RUBY FROM THE RUBY SECTION OF THE START MENU.
- > IF YOU'RE USING MAC OR LINUX OPEN A TERMINAL AND TYPE irb

IRB AS A CALCULATOR

1. ADDITION

3+2

2. MULTIPLICATION

3*2

1. POWERS

3**2

2. SQUARE ROOT

Math.sqrt(9)

BREAKING IT DOWN

MATH.SQRT(9)

MATH IS A BUILT-IN MODULE FOR MATHEMATICS.
MODULES SERVE TWO ROLES IN RUBY. THIS SHOWS
ONE ROLE ABOUT HOW TO GROUP SIMILAR METHODS
TOGETHER UNDER A FAMILIAR NAME. MATH ALSO
CONTAINS METHODS LIKE SIN() AND TAN()

BREAKING IT DOWN

MATH SQRT(9)

MESSAGE. THE MESSAGE IN THIS CASE IS sqrt(9). WHICH MEANS CALL THE METHOD sqrt (SHORT FOR SQUARE ROOT) WITH THE PARAMETER OF 9

BREAKING IT DOWN

THE RESULT OF THIS IS THE VALUE 3.0

SAVING RESULTS (VARIABLES)

```
a = 3 ** 2
b = 4 ** 2
Math.sqrt(a+b)
```

HELLO WORLD!

```
irb(main):001:0> "Hello World"
=> "Hello World"
```

HELLO WORLD!

```
irb(main):002:0> puts "Hello World"
Hello World
=> nil
```

MAKING OUR OWN METHOD

```
def hi
  puts "Hello World!"
end
hi
hi()
```

SAYING HI TO SOMEONE

ADDING A PARAMETER TO THE METHOD

```
def hi(name)
  puts "Hello #{name}!"
end
hi "Will"
hi # error!
```

WHAT IS THAT '# {NAME}' BIT?

```
def hi(name)
  puts "Hello #{name}!"
end
```

MAKING IT A LITTLE BIT SMARTER

```
def hi(name = "World")
  puts "Hello #{name.capitalize}!"
end
hi "will"
hi
```

INSPECTING THINGS IN IRB

```
name = "will"
name.inspect
name.methods
name.methods.sort
name.capitalize
name.upcase
name.upcase!
name
```

ARRAYS

```
a = [1,2,3,4,5]
```

- a.size
- a.max
- a.reverse
- a.first
- a.last

LOOPING

```
a = [1,2,3,4,5]
a.each do |number|
  puts number
end
```

MORE LOOPING

```
5.times do |number|
  puts number
end

0
1
2
3
```

HOW CAN WE MAKE THE OUTPUT LOOK LIKE THE FIRST LOOP?

MAKING IT LOOK LIKE THE FIRST LOOP

```
5.times do |number|
  puts number + 1
end
```