Bringing it all Together

Computational Thinking Syntax Domain Expertise. Standard Library Exposure. Ability to read package documentation

Syntax Variables, - Assignment, Name, type, value,

- Value is primitive " or

Value is "expression" Branching - if, elif, else, - compute make decisions based on input, randon variables, comparted values. Boolean Logic & Expressions and or not, comparison (==, !=, >, 6

Looping: While loops, condition,
body.
Lists: Compact storage of data

[] create, update, append, delete
indexing Indexing the same calculation on each item in the Functions! Encapsolation & Abstraction

Computational hinking "The ability to see a problem and break it down in to a serves of Steps." Psuedo-code is the tool we use to do this w/o having to think about syntax at the same time.

Computational thinking is not an intuitive thing for most people.

It is a skill that down be developed however.

Of 950 - One thing to sayanother thing to do - Repeated practice!!!

Domain Expertise-"Always be learning!" Before starting to solve a problem you must first undestand the problem! Obvious, but surprisingly rare.

Domain Expertse means that you must understand how something works when are going right, but what happens and where things might go wrong.

Analogy: You must understand the subject well enough to teach it. You are in essence teaching a computer how to preform a task.

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f you are currently struggling, what prese of Syntax, Computational Thinking Domain Expertse?

Solve I issue at a time! 1) Domain Expertise - Under stand 2) Computational Thinking - Break the problem down into a series 3) Syntax - Convert steps in to code statements. Type and run, try it out.

Slow	down.	
Slow	down!	
Slow	down	

Program togethe Exercise Text ReadorSility -Readers, 1. Hy Scare = 206, 435 - 1, 015 ( words/sentine) Text Readability is a regression Take a monute How did they come up up this formala?

At a high Level, What do we reed to do? Inputs & Outputs & nhat needs to be computed)

Write Kruedo Code ( Put it in a function) Do this together! Try for 5 minutes on your own. Then be prepared to share up