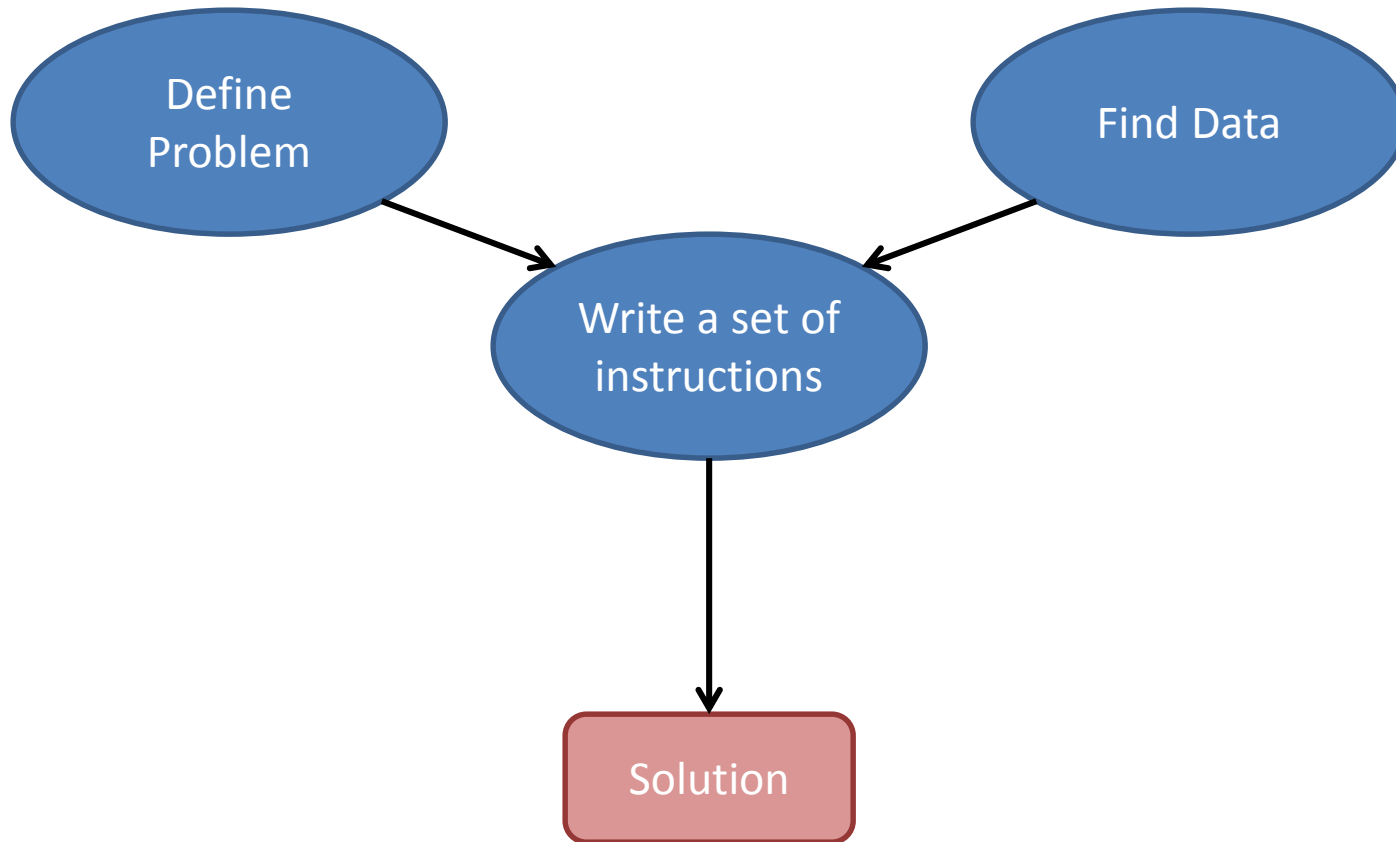


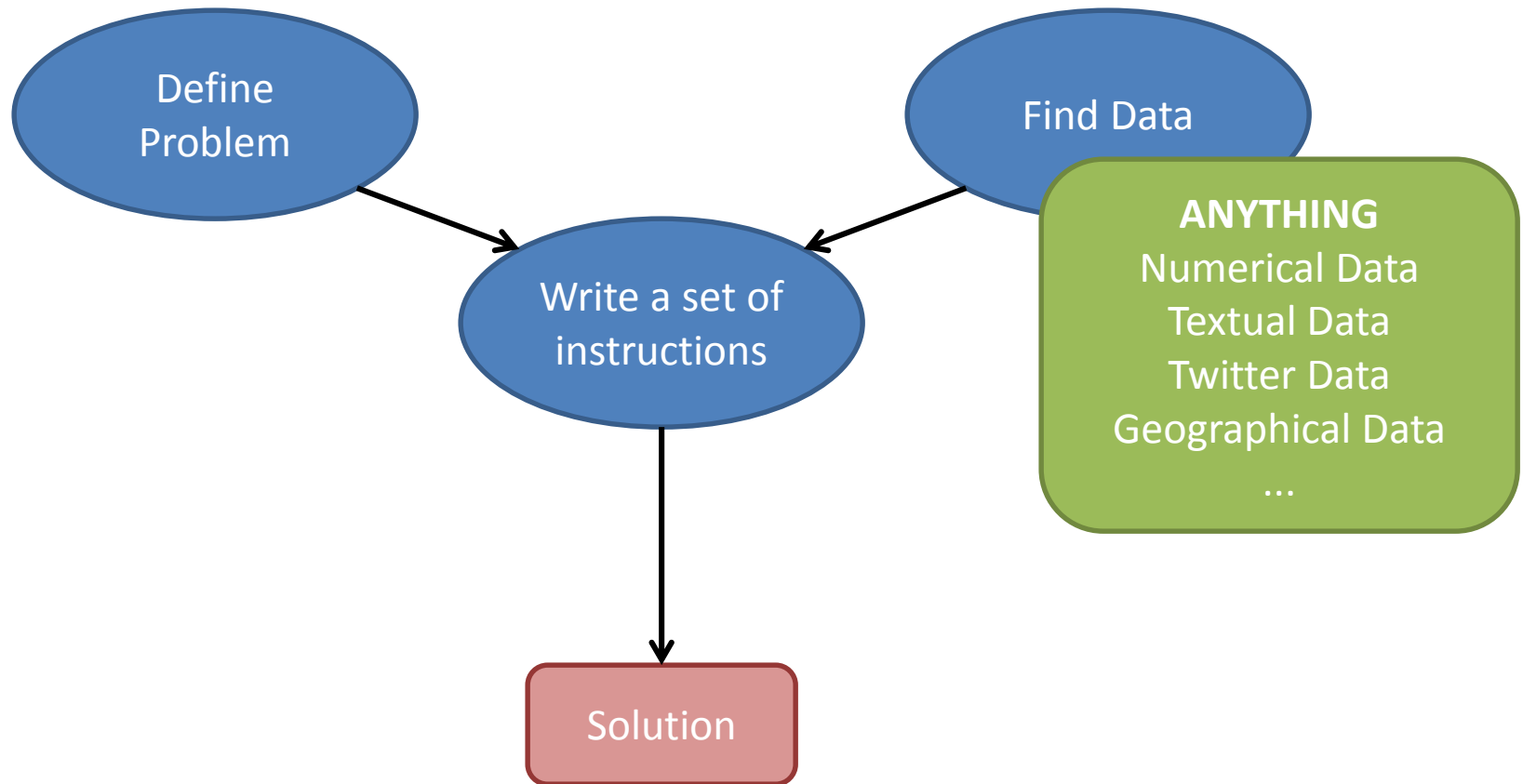
Final Project!

April 12, 2016

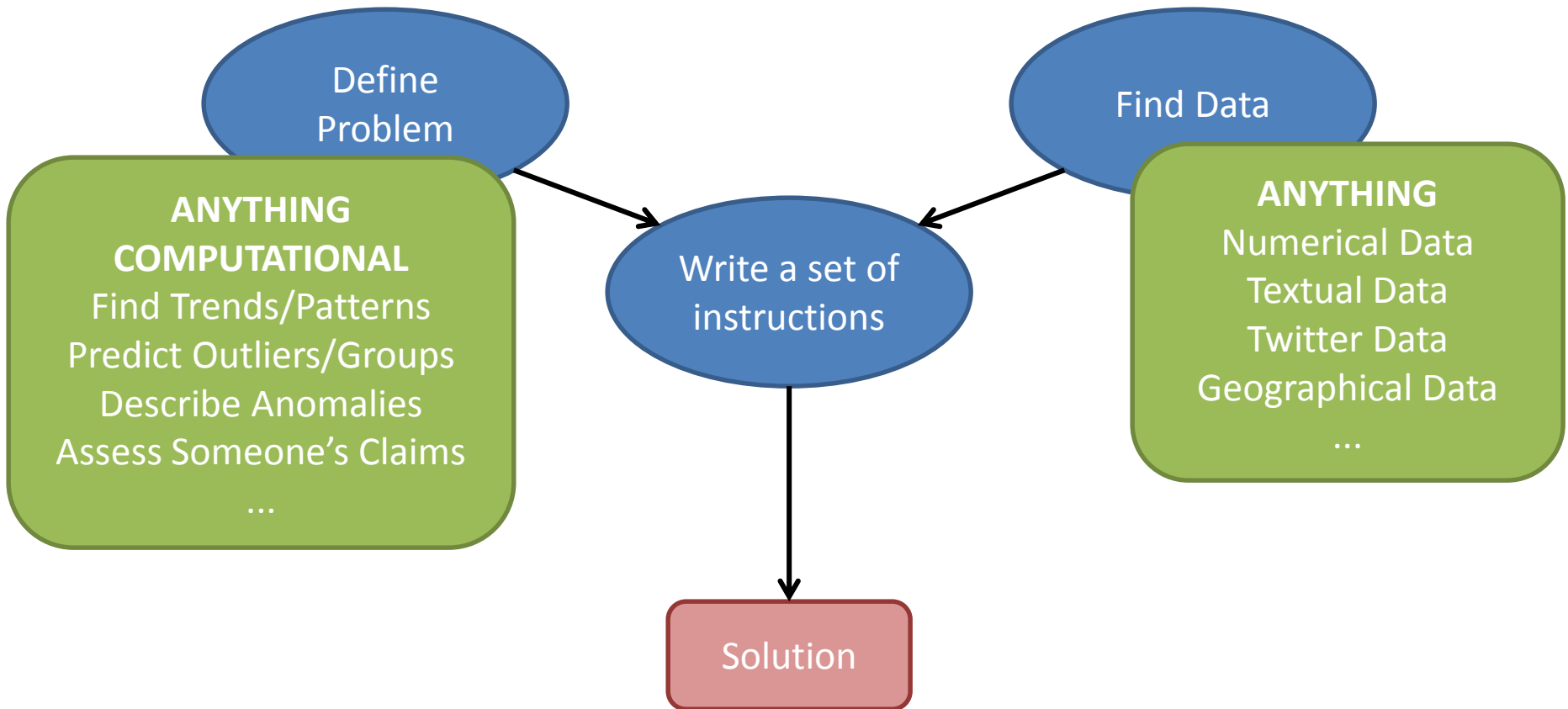
Final Project



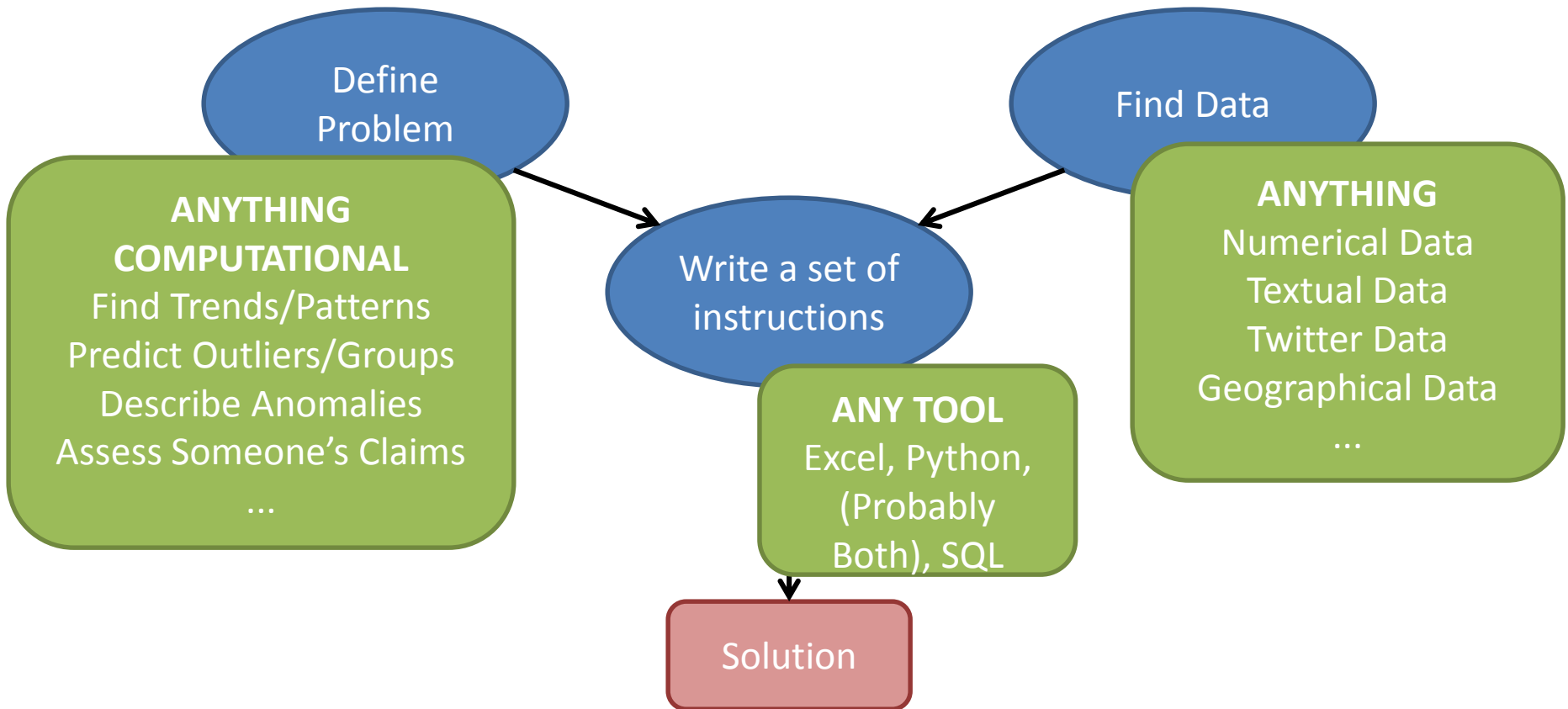
Final Project



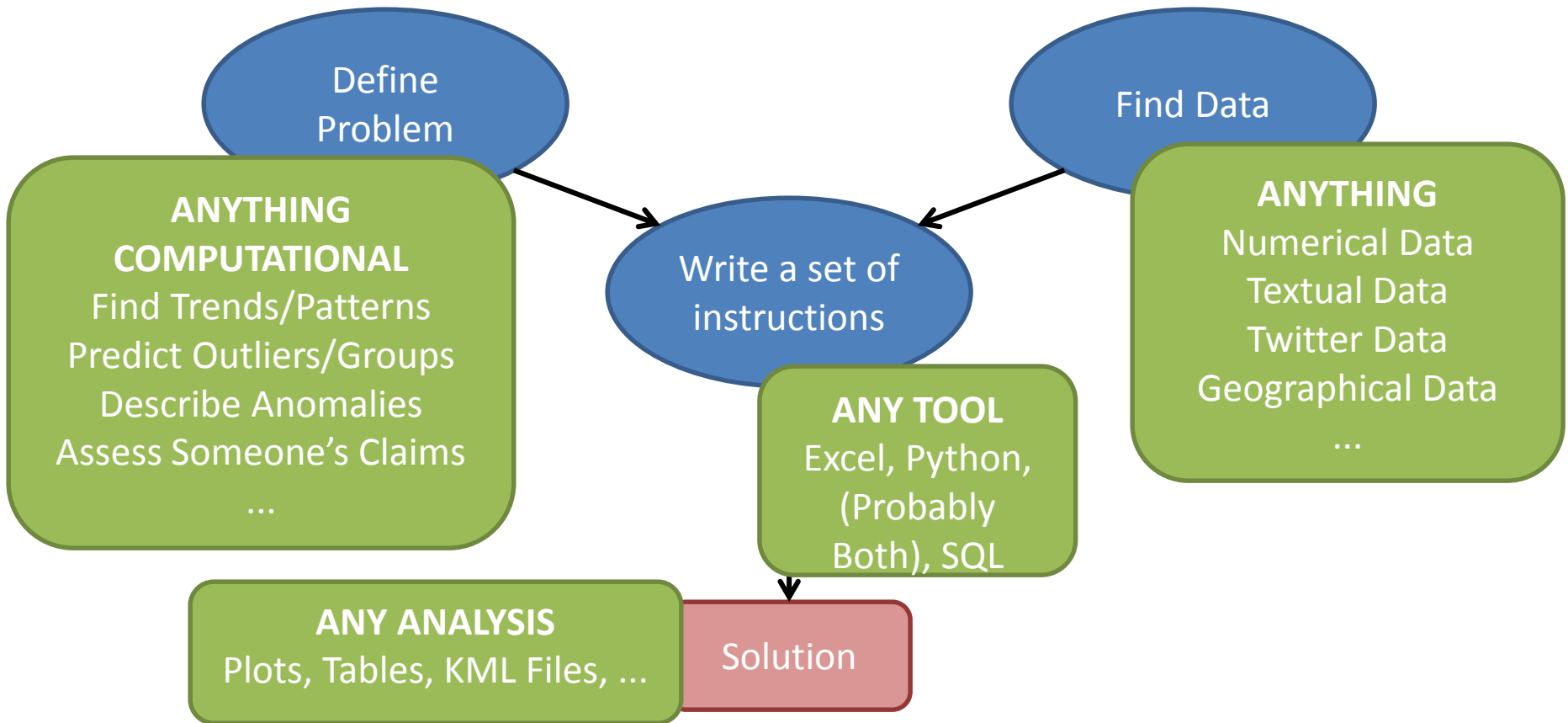
Final Project



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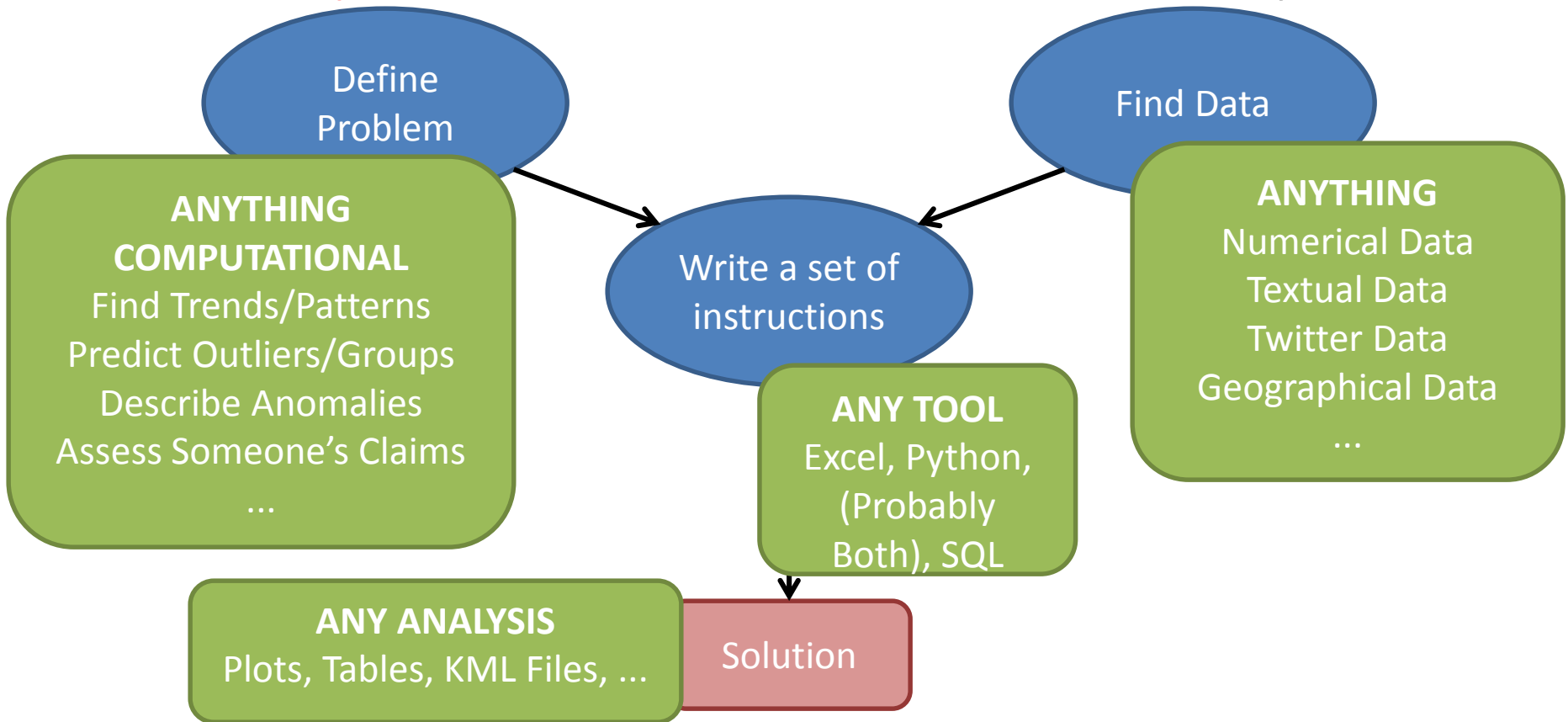


Final Project



Final Project

Only Constant: you will use computers to
process & visualize data automatically



Grading Breakdown

Component	% of Overall Grade
Homework Assignments	50
Unit Project #1	10
Unit Project #2	15
Final Project	25

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*This is important!
Don't drop the ball!*

Today

- Example Final Projects
- General Project Description
 - Scope
 - Timeline

Example 1: Where should I Live?

I want to buy a house somewhere near my hometown. Where should I buy?

Kasey Hass's Project

<https://sites.google.com/a/brown.edu/house-hunting-mecklenburg-county/home>

In Each Zip Code:

Rent price: Red dollar sign

Vacancies: For sale sign

Income: Green dollar sign

Marriage rate: Wedding rings



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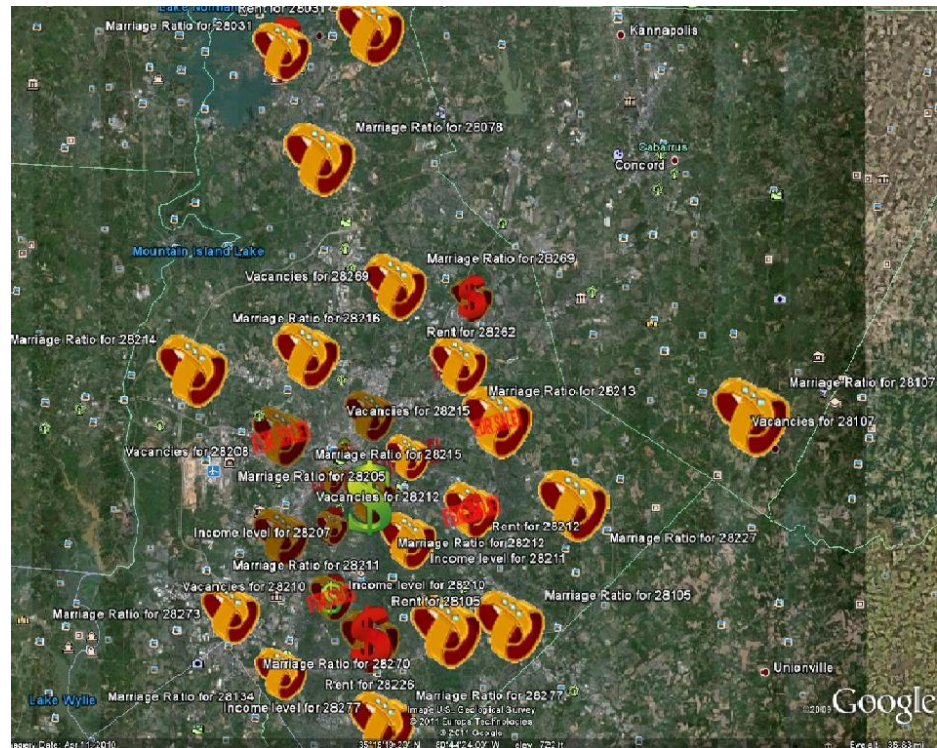
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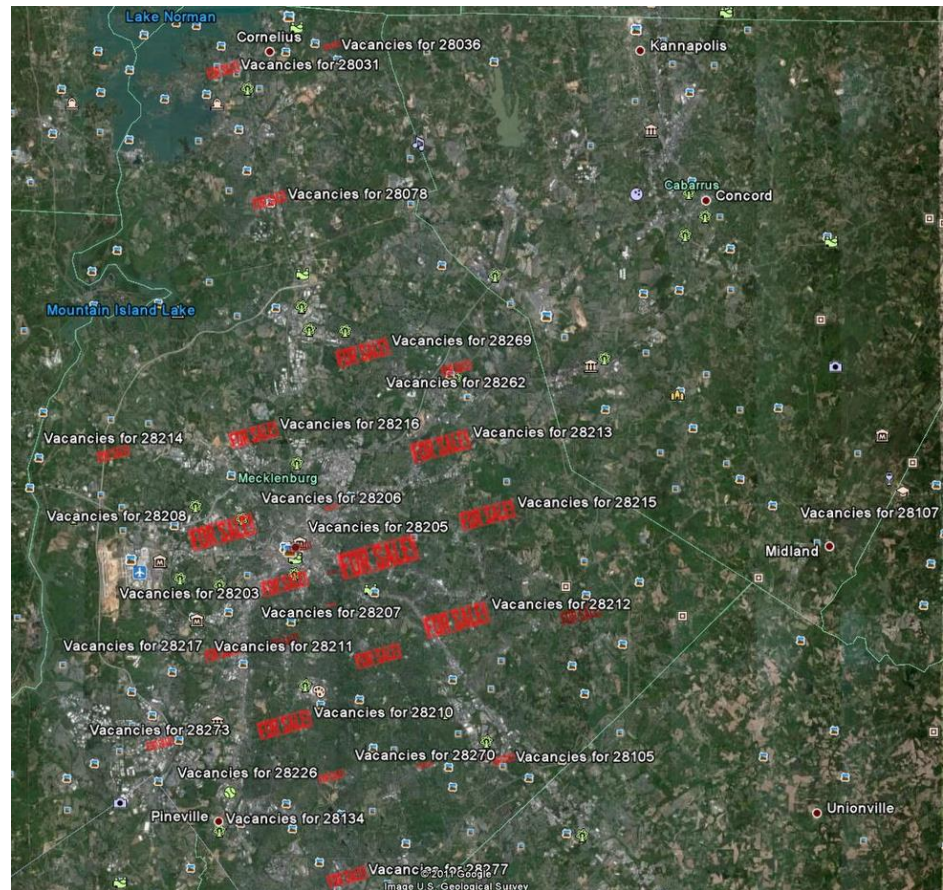
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Example 2: Athletes & Geography

Malcolm Gladwell's *Outliers*

- Professional Canadian hockey players

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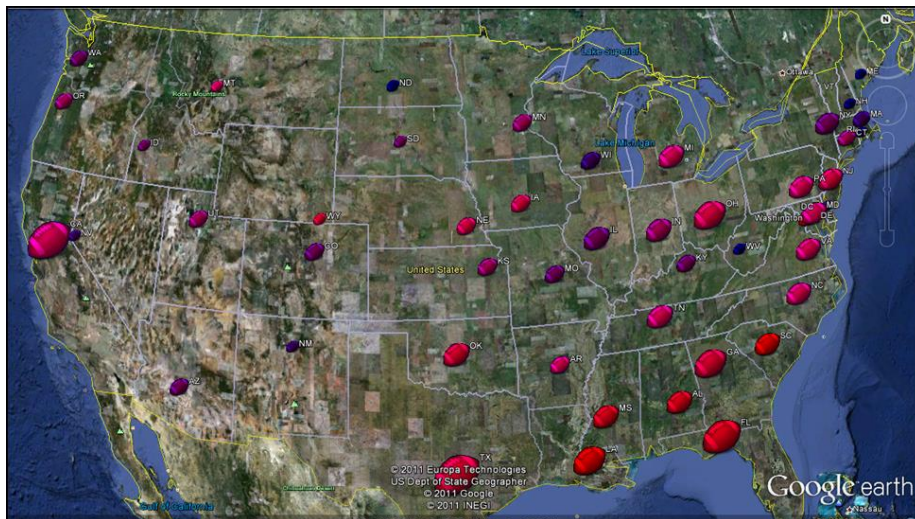
- Professional Canadian hockey players
 - Mostly born in January.
 - Few are born in December.
 - Junior league's cutoff is Dec. 31st
- Any association between professional players and *where* they were born?

Example 2: Athletes & Geography

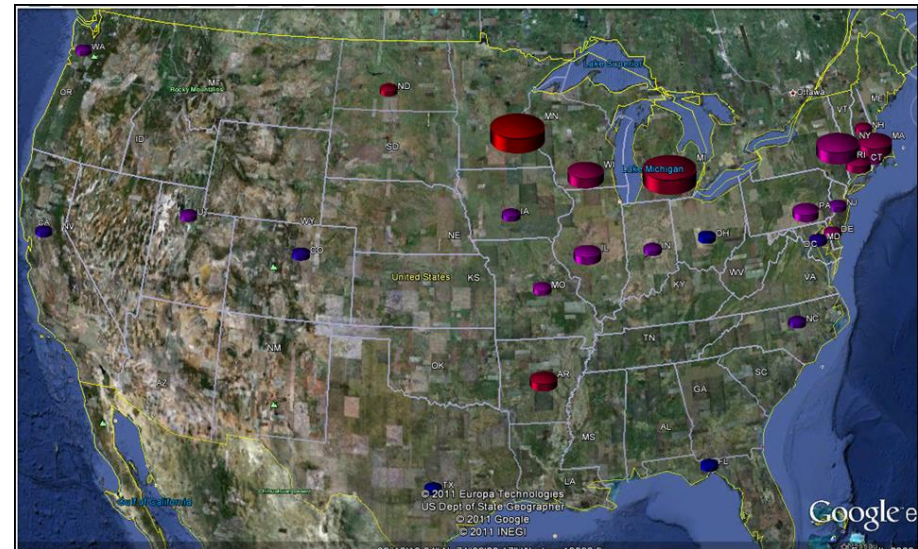
Daniel Newmark's Project

<https://sites.google.com/a/brown.edu/daniel-s-data/project-4--distribution-of-athletes>

Football (NFL)



Hockey (NHL)



Example 3: Growth of Top Digital Media Companies



How does the Growth Rate Compare in the Past 10 Years?

Example 3: Growth of Top Digital Media Companies

Nicholas Talbott's Project

<https://sites.google.com/site/growthofdigitalmediacompanies/home>

One KML File for Each Year
Logo Size shows Growth



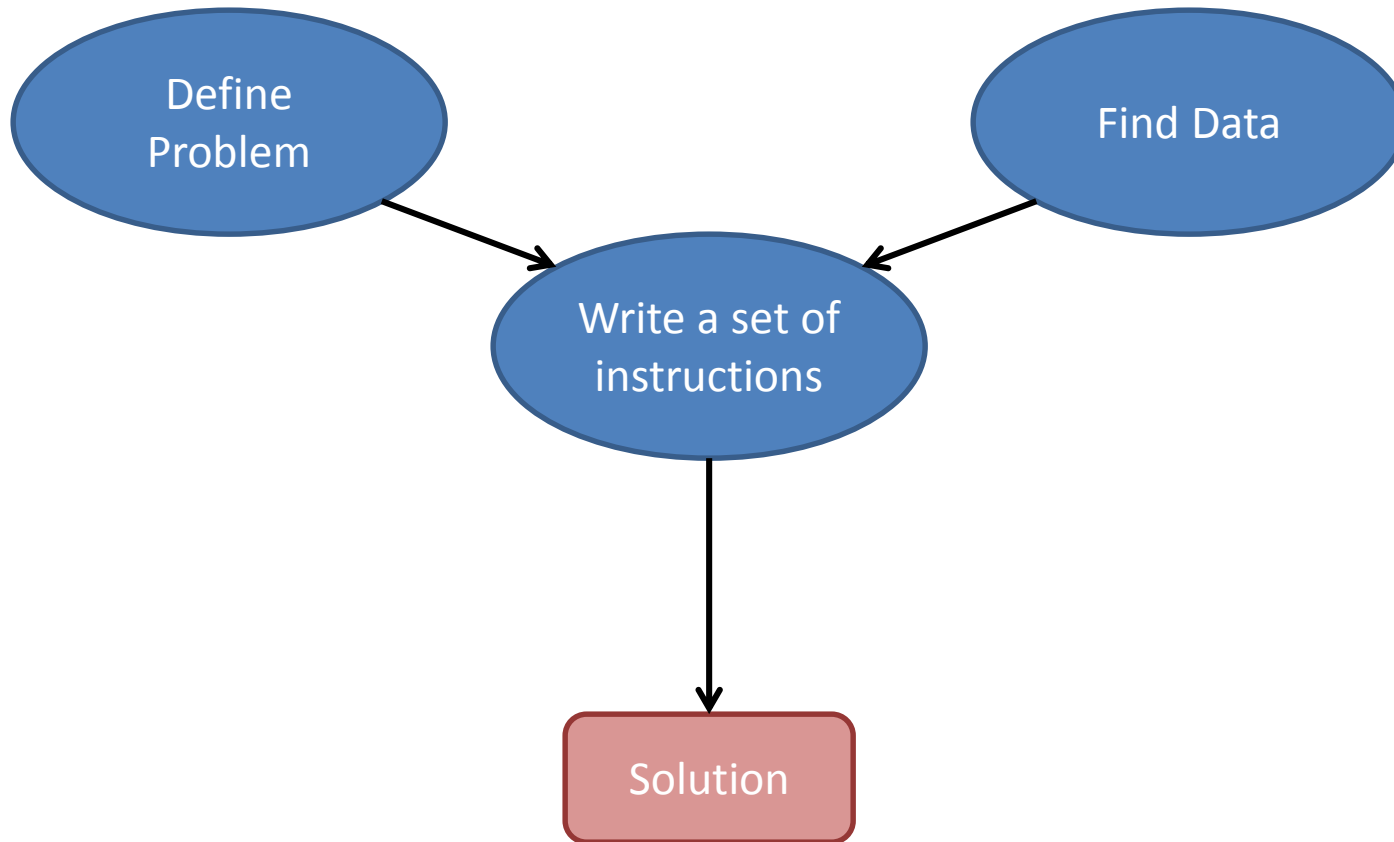
YouTube Video:

http://www.youtube.com/watch?v=QDtDF6_mrkc

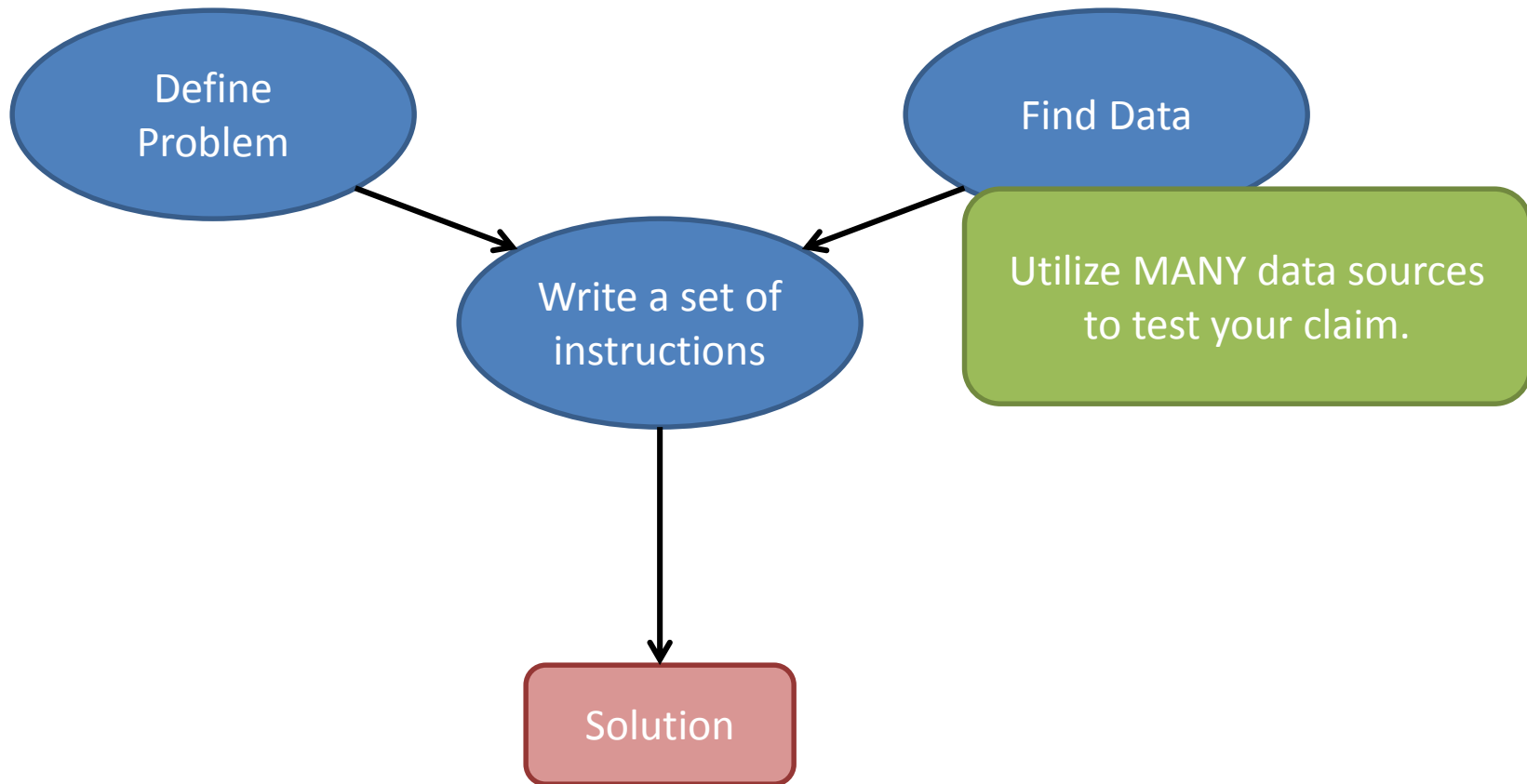
Today

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- General Project Description
 - Scope
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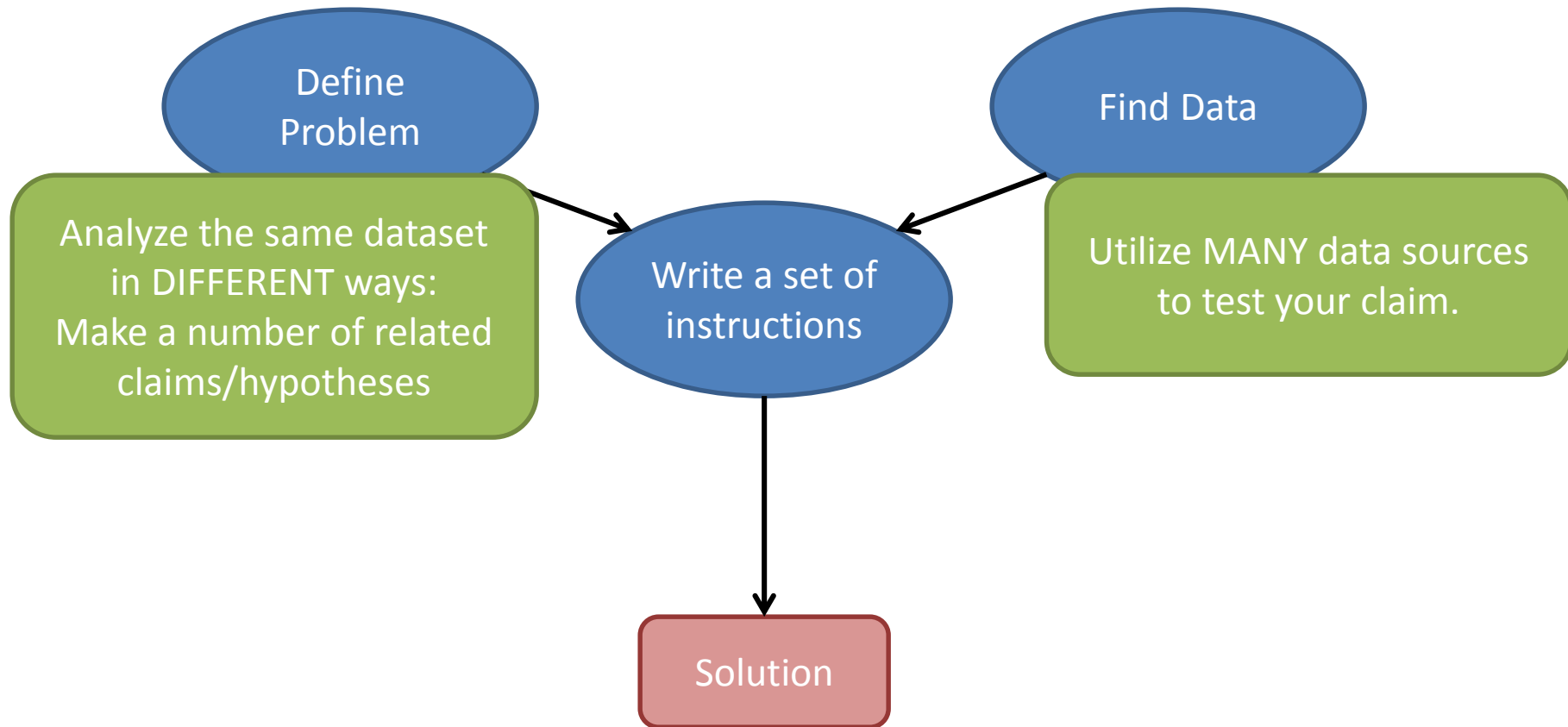
Scope – Think Big! (& Have Backup Plans)



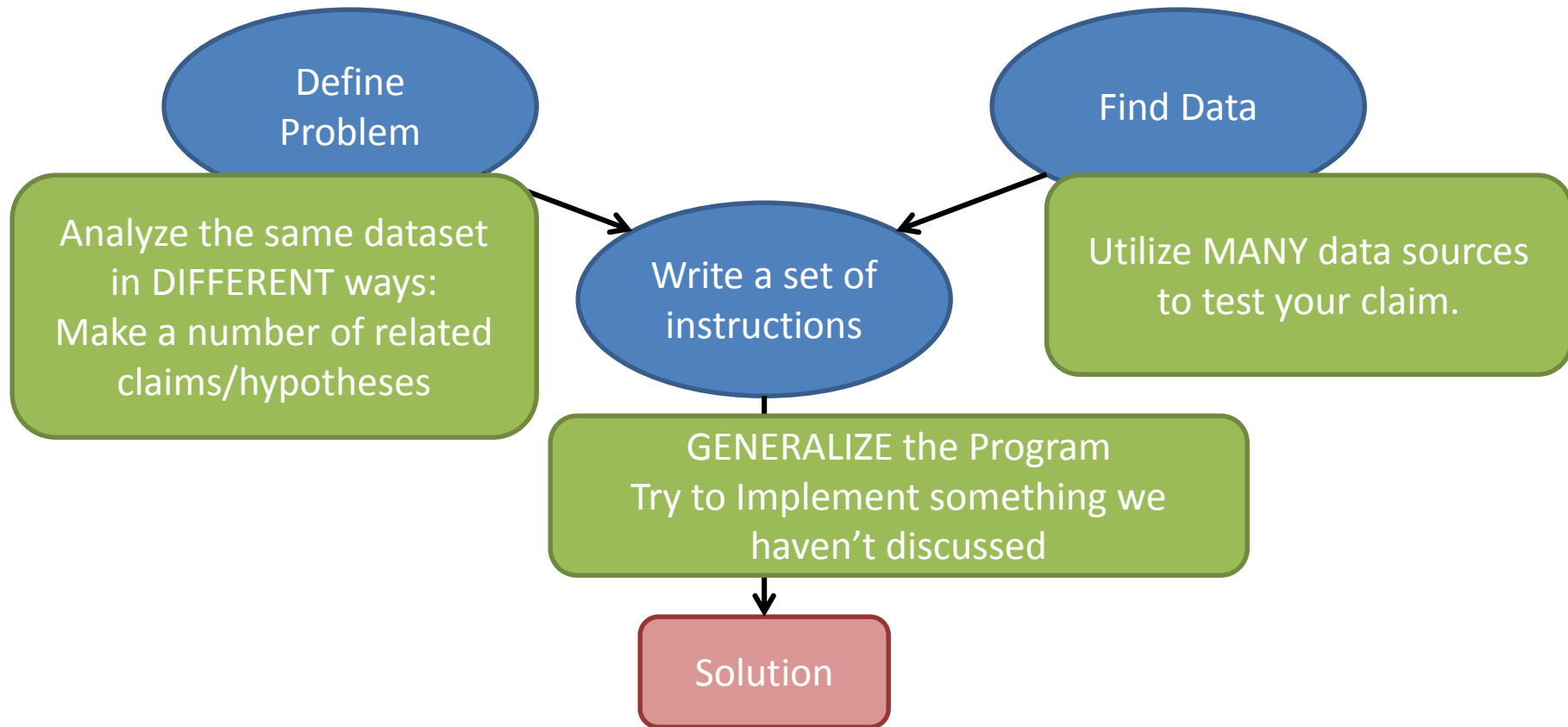
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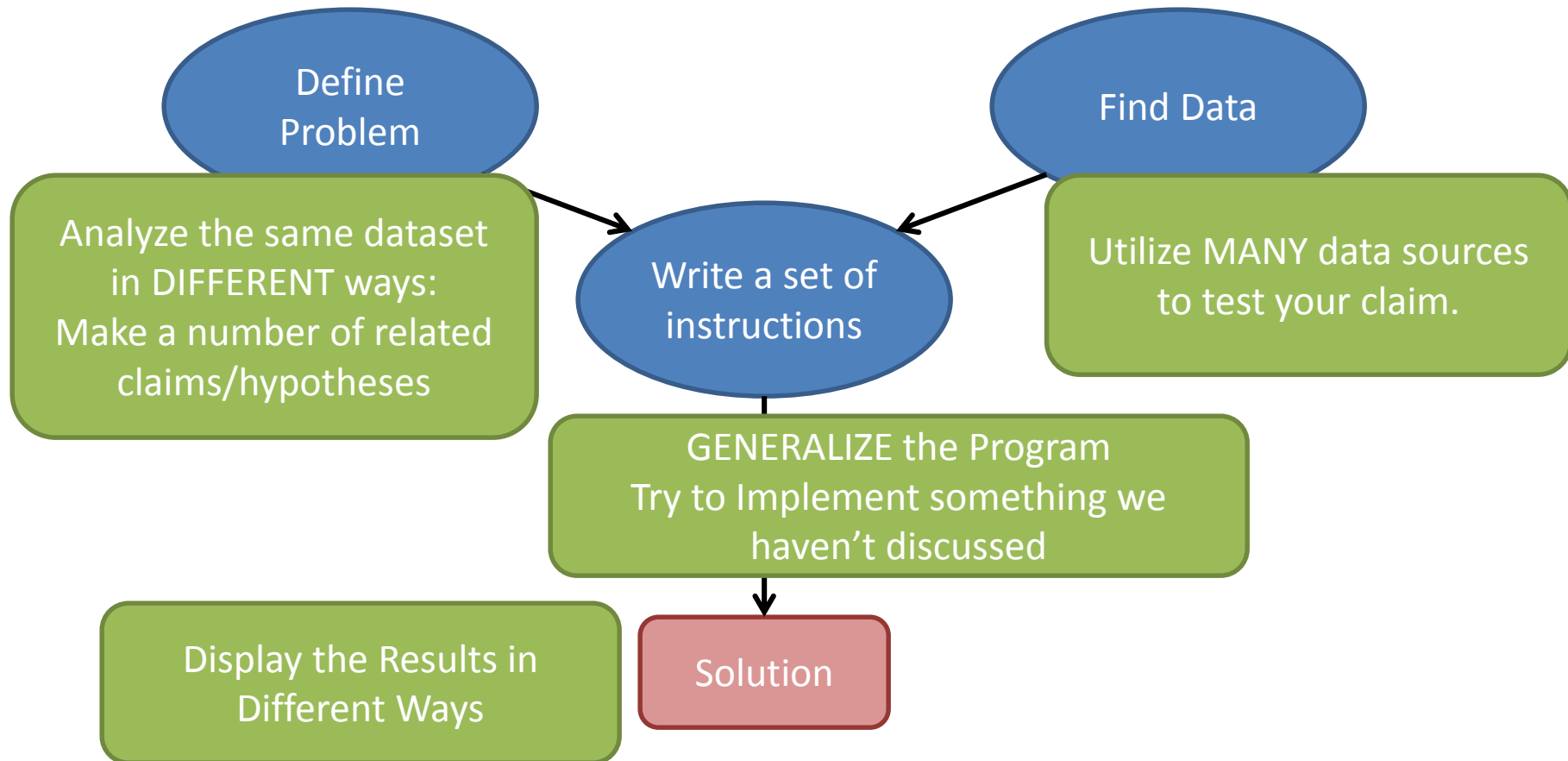
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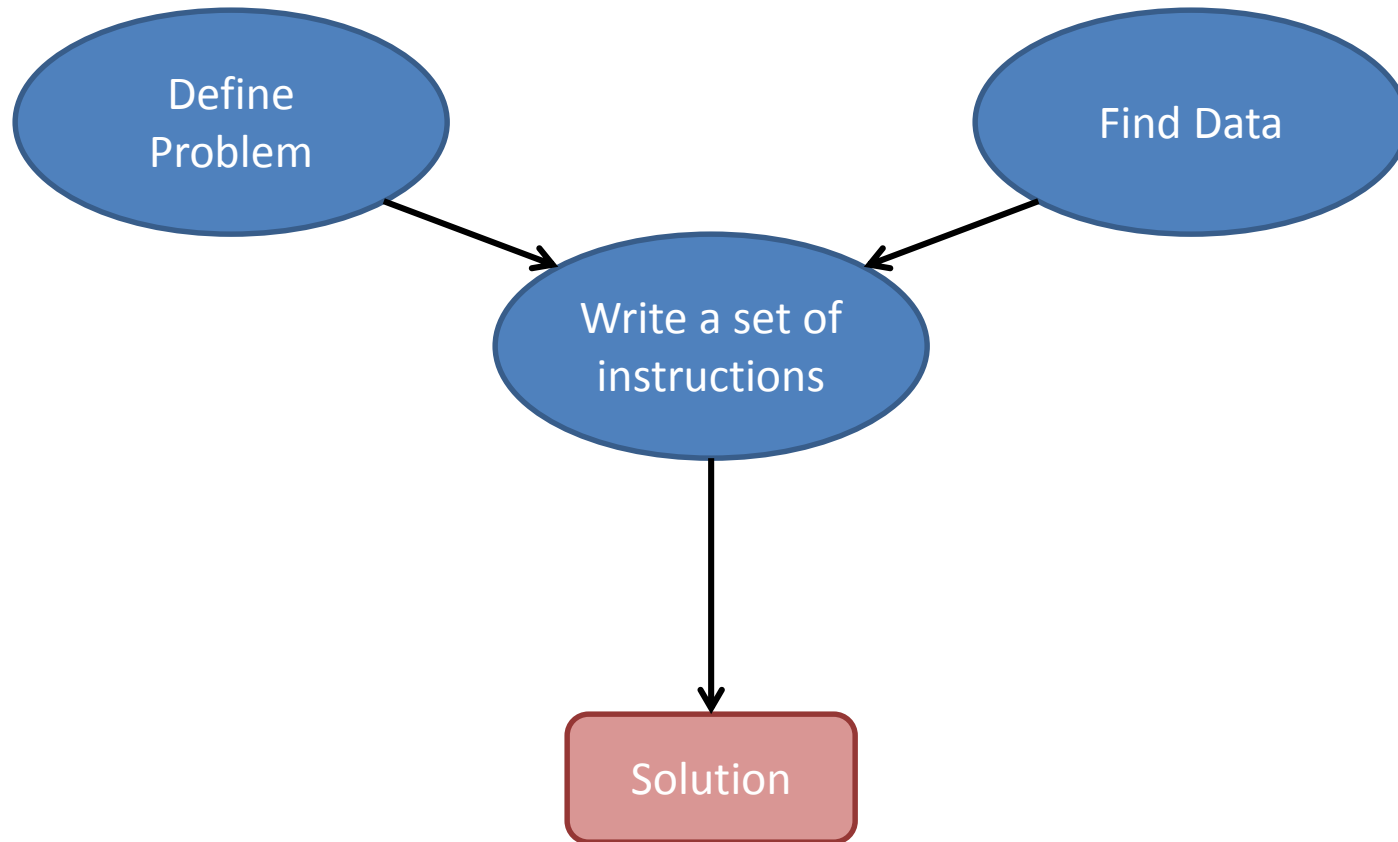
- Example Final Projects
- General Project Description
 - Scope
 - **Timeline**

Timeline

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	4/11	4/12	4/13	4/14	4/15	
	Meet With Staff At Least Once					
		Project <i>Out</i>				
	4/18	4/19	4/20	4/21	4/22	
		Twitter and While Loop & HW 3-2 <i>Out</i>		Proposal <i>Due</i>		
	4/25	4/26	4/27	4/28	4/29	
	Meet With Staff At Least Once					
		HW 3-2 <i>Due</i>				
		5/3	5/4	5/5		
		<i>In-class Work Time</i>	<i>Project Due</i>	Last Class: <i>2min Presentations and reflection (and food)</i>		

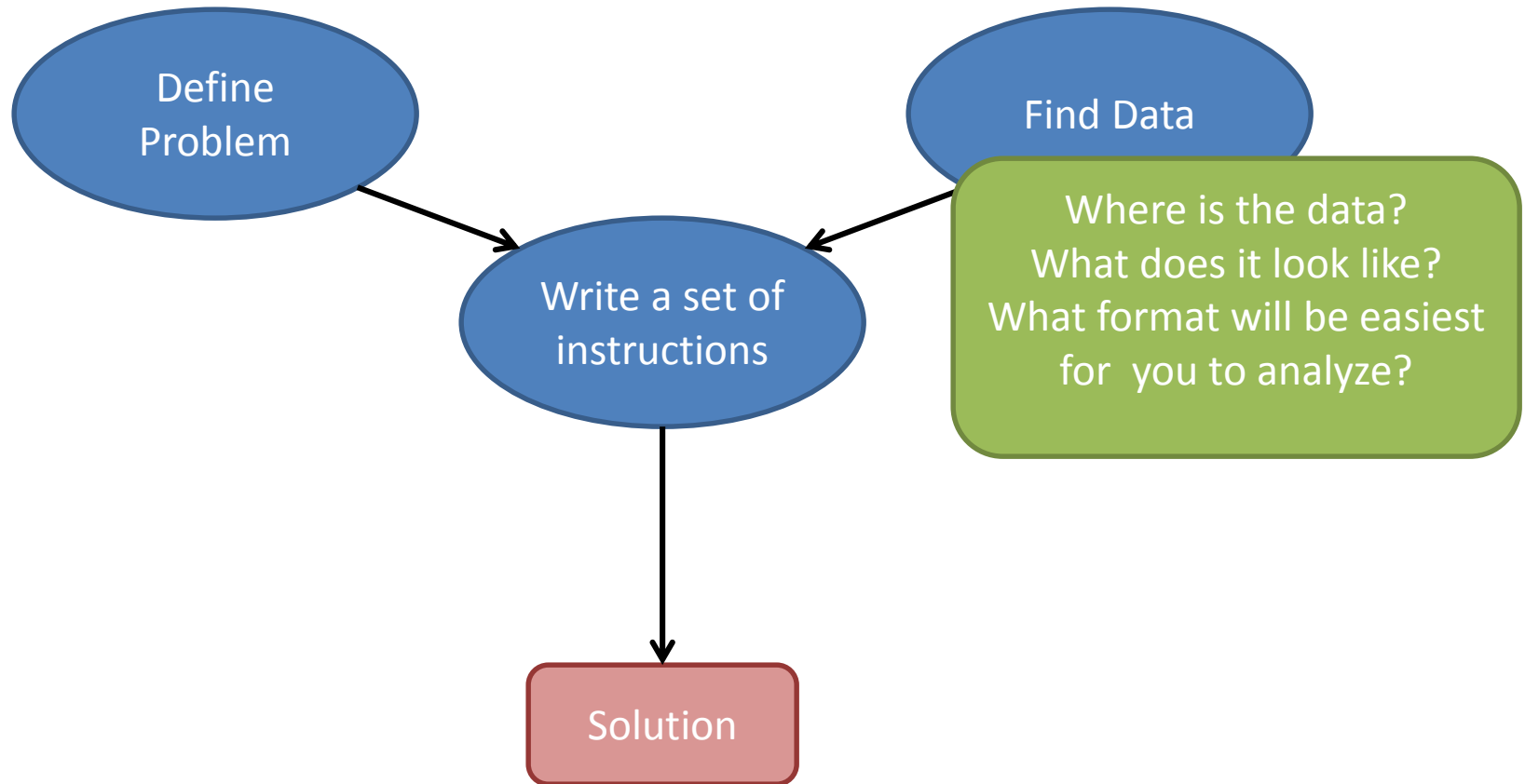
Before You Begin...

Say you have a vague idea of what you want to do....



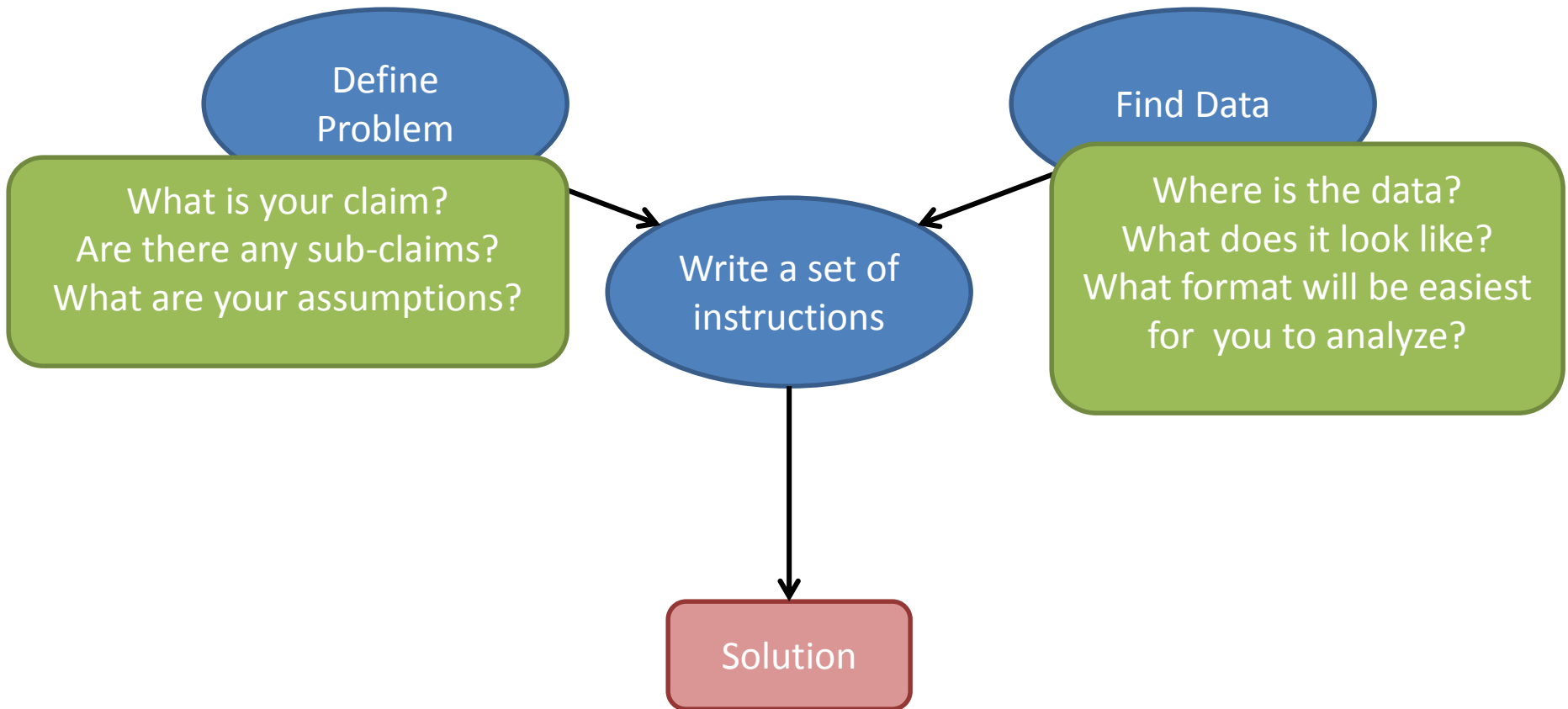
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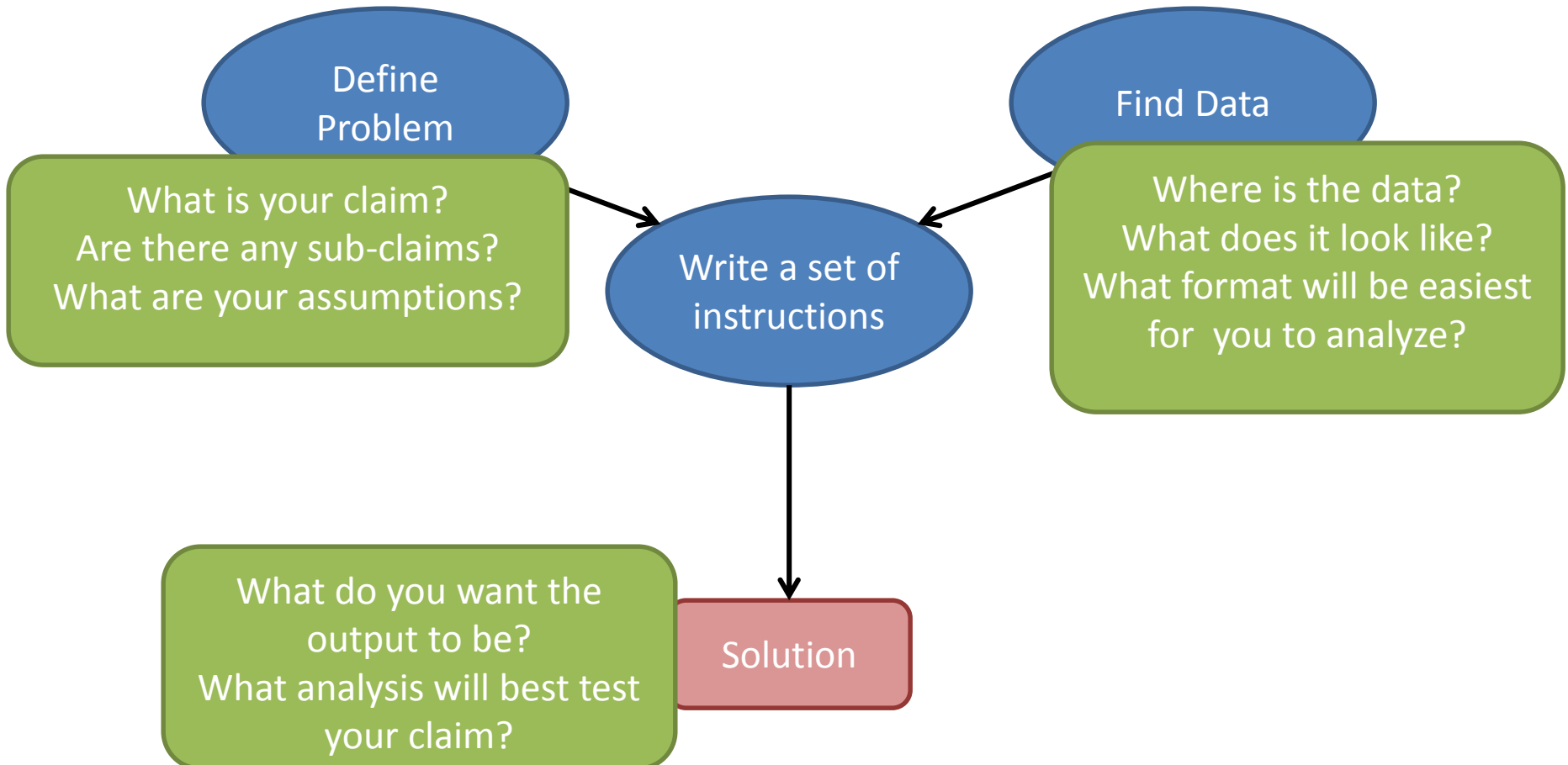
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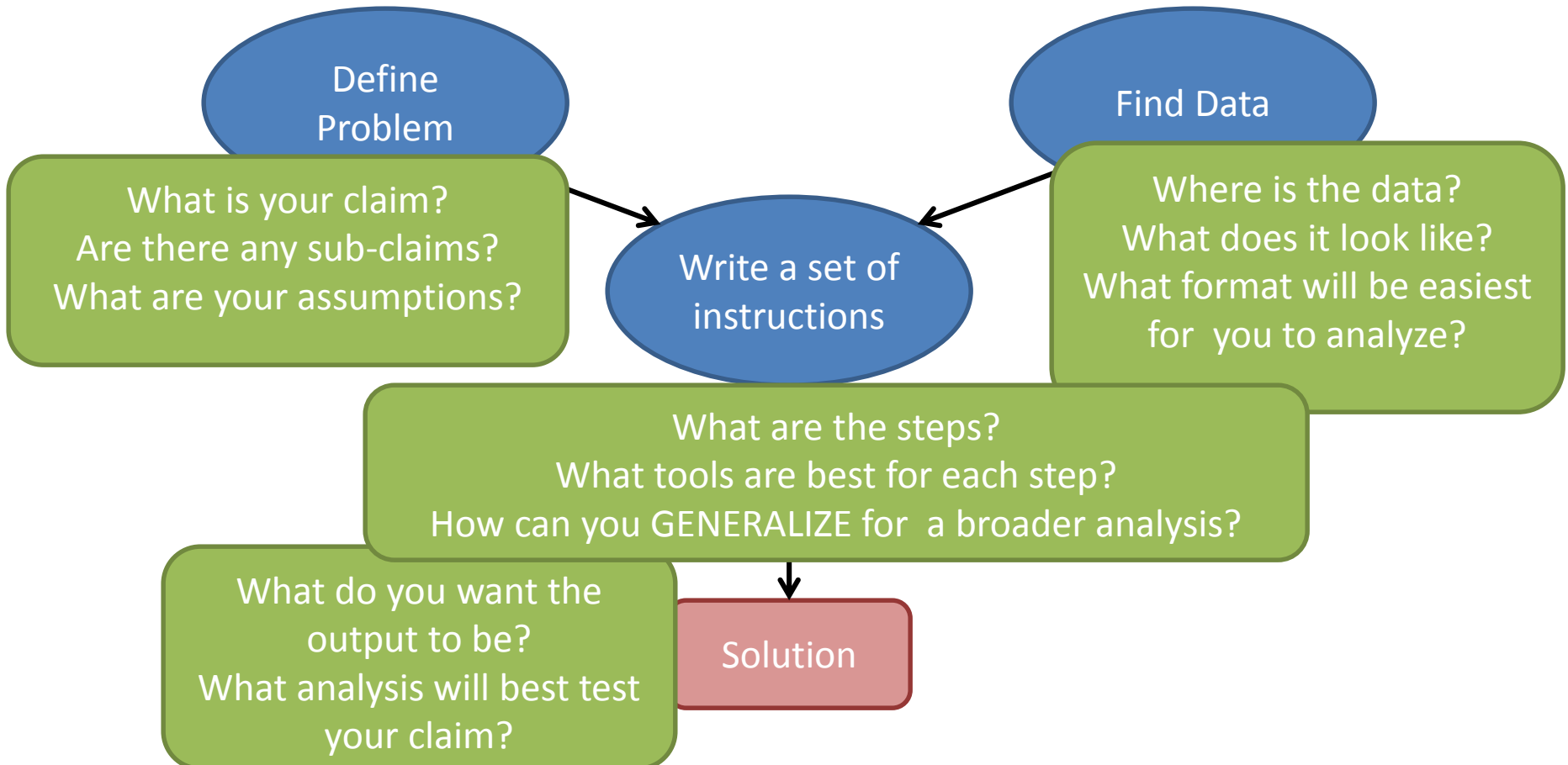
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 - From a user's timeline
 - Based on a search term (+ restricted geographically)
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Use them!
Power to you!

Things to consider

- Don't reinvent the wheel
 - Use code from activities, homeworks
 - Use your own code
- Start working *early*
 - *Don't wait* to start after handing in the proposal
 - *The proposal is “early feedback” not “pre-feedback”*
- Ask for help during *office hours* and the *in-class Project Workshop* (5/3)