Programming

This is the phase of the Architectural process in which data and needs of the client is gathered. This may appear at first as a "wish list" of all the spaces that the client needs for their project. This is more than an list of rooms and spaces.

- *This is done as an interaction between the Architect and the client*

- *It occurs over a series of conversations*

- *The Architect needs to ask questions to fully understand the use and the need for each space.*

Programming

Questions:

- *What is the use of your space?*

- *Who uses this space?*

- *How do you want the occupants to interact?*

- *What level of privacy do you require or separation of public/private?*

- *Is there a need for a service entrance?*

- *Are there site conditions that are important?*

- *Do you envision spatial interconnections within the space –i.e. double height spaces?*

Programming

Questions:

- *How do you enter your space?*

  - *Is there some sort of security point?*

  - *Does there need to be a waiting area?*

  - *Can people move freely through your space?*

  - *What spaces are connected to the entry?*

  - *Will many people be in the entry area at once?*

  - *Is there deliveries being made through this entrance?*

Programming

Questions:

- *What are the spaces that you need?*

  - *Who uses this space?*

  - *What type of furniture is in this space?*

  - *What space does it need to be next to?*

  - *Is this open to the public?*

  - *Does it need natural light?*

  - *Does it need plumbing? Or any other special requirements?*

Programming

List of Spaces

- *Once you have an inventory of the different spaces, then adjacencies must be determined.*

    - *Some spaces can only function if it is next to or connected to a certain space.*
      I.e. kitchen and dining room = MUST

    - *Some spaces should be near one another. = SHOULD*

    - *Some spaces would benefit if it was near a certain space = COULD (Would be nice)*

    - *-Other spaces have no adjacency requirements.*

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule		🟥									
Living Room	🟥										
Dining Room											
Kitchen											
Powder Room											
Kids Room											
Bathroom											
Master Bedroom											
Master Bathroom											
Deck											
Laundry											

Must 🟥

Should 🟦

Would be nice 🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	▨	🟥									
Living Room	🟥	▨	🟦								
Dining Room		🟦	▨								
Kitchen				▨							
Powder Room					▨						
Kids Room						▨					
Bathroom							▨				
Master Bedroom								▨			
Master Bathroom									▨		
Deck										▨	
Laundry											▨

Must 🟥

Should 🟦

Would be nice 🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	gray	red									
Living Room	red	gray	blue	green							
Dining Room		blue	gray	red							
Kitchen		green	red	gray							
Powder Room					gray						
Kids Room						gray					
Bathroom							gray				
Master Bedroom								gray			
Master Bathroom									gray		
Deck										gray	
Laundry											gray

Must — red

Should — blue

Would be nice — green

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	⬜	🟥			🟦						
Living Room	🟥	⬜	🟦	🟩							
Dining Room		🟦	⬜	🟥							
Kitchen		🟩	🟥	⬜							
Powder Room	🟦				⬜						
Kids Room						⬜					
Bathroom							⬜				
Master Bedroom								⬜			
Master Bathroom									⬜		
Deck										⬜	
Laundry											⬜

🟥 Must

🟦 Should

🟩 Would be nice

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	■	🟥			🟦						
Living Room	🟥	■	🟦	🟩							
Dining Room		🟦	■	🟥							
Kitchen		🟩	🟥	■							
Powder Room	🟦				■						
Kids Room						■	🟥				
Bathroom						🟥	■				
Master Bedroom								■			
Master Bathroom									■		
Deck										■	
Laundry											■

🟥 Must
🟦 Should
🟩 Would be nice

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	⬜	🟥			🟦						
Living Room	🟥	⬜	🟦	🟩							
Dining Room		🟦	⬜	🟥							
Kitchen		🟩	🟥	⬜							
Powder Room	🟦				⬜						
Kids Room						⬜	🟥				
Bathroom						🟥	⬜				
Master Bedroom								⬜			
Master Bathroom									⬜		
Deck										⬜	
Laundry											⬜

Must	🟥
Should	🟦
Would be nice	🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	⬜	🟥			🟦						
Living Room	🟥	⬜	🟦	🟩							
Dining Room		🟦	⬜	🟥							
Kitchen		🟩	🟥	⬜							
Powder Room	🟦				⬜						
Kids Room						⬜	🟥	🟩			
Bathroom						🟥	⬜				
Master Bedroom						🟩		⬜	🟥		
Master Bathroom								🟥	⬜		
Deck										⬜	
Laundry											⬜

Must	🟥
Should	🟦
Would be nice	🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	⬜	🟥			🟦						
Living Room	🟥	⬜	🟦	🟩							
Dining Room		🟦	⬜	🟥							
Kitchen		🟩	🟥	⬜							
Powder Room	🟦				⬜						
Kids Room						⬜	🟥	🟩			
Bathroom						🟥	⬜				
Master Bedroom						🟩		⬜	🟥		
Master Bathroom								🟥	⬜		
Deck										⬜	
Laundry											⬜

Must 🟥

Should 🟦

Would be nice 🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	⬜	🟥			🟦						
Living Room	🟥	⬜	🟦	🟩						🟩	
Dining Room		🟦	⬜	🟥						🟩	
Kitchen		🟩	🟥	⬜					? 🟩		
Powder Room	🟦				⬜						
Kids Room						⬜	🟥	🟩			
Bathroom						🟥	⬜				
Master Bedroom						🟩		⬜	🟥		
Master Bathroom								🟥	⬜		
Deck		🟩	🟩	?				🟩		⬜	
Laundry											⬜

Must	🟥
Should	🟦
Would be nice	🟩

Programming
For this Example: 2 bedroom House

List of Spaces:

	Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
Vestibule	■	Must			Should						
Living Room	Must	■	Should	Would be nice						Would be nice	
Dining Room		Should	■	Must						Would be nice	
Kitchen		Would be nice	Must	■					?	Would be nice	
Powder Room	Should				■						
Kids Room						■	Must	Would be nice			Would be nice
Bathroom						Must	■				Would be nice
Master Bedroom						Would be nice		■	Must		Would be nice
Master Bathroom								Must	■		Would be nice
Deck		Would be nice	Would be nice	?				Would be nice		■	
Laundry						Would be nice	Would be nice	Would be nice	Would be nice		■

Must — (red)
Should — (blue)
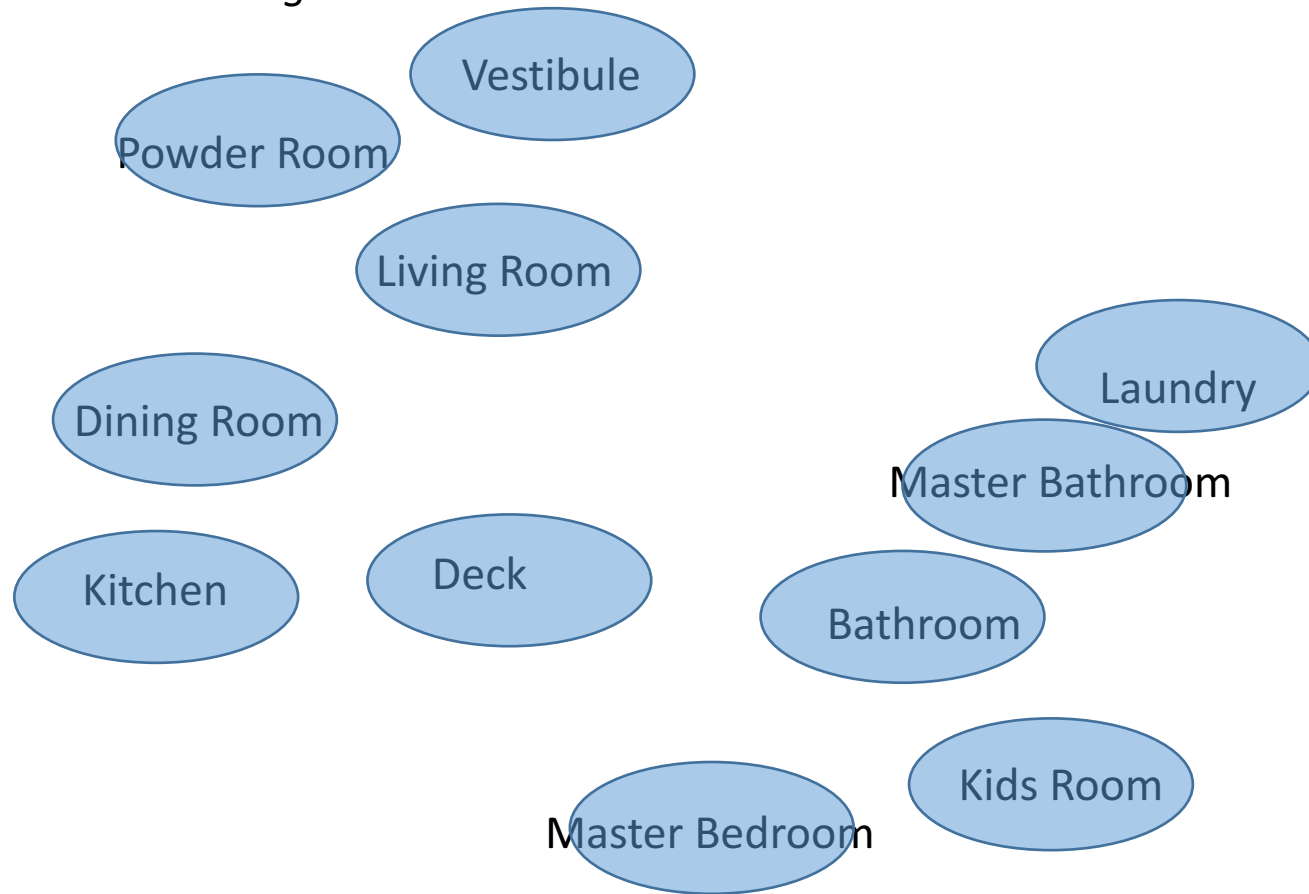Would be nice — (green)

Programming
For this Example: 2 bedroom House

List of Spaces:

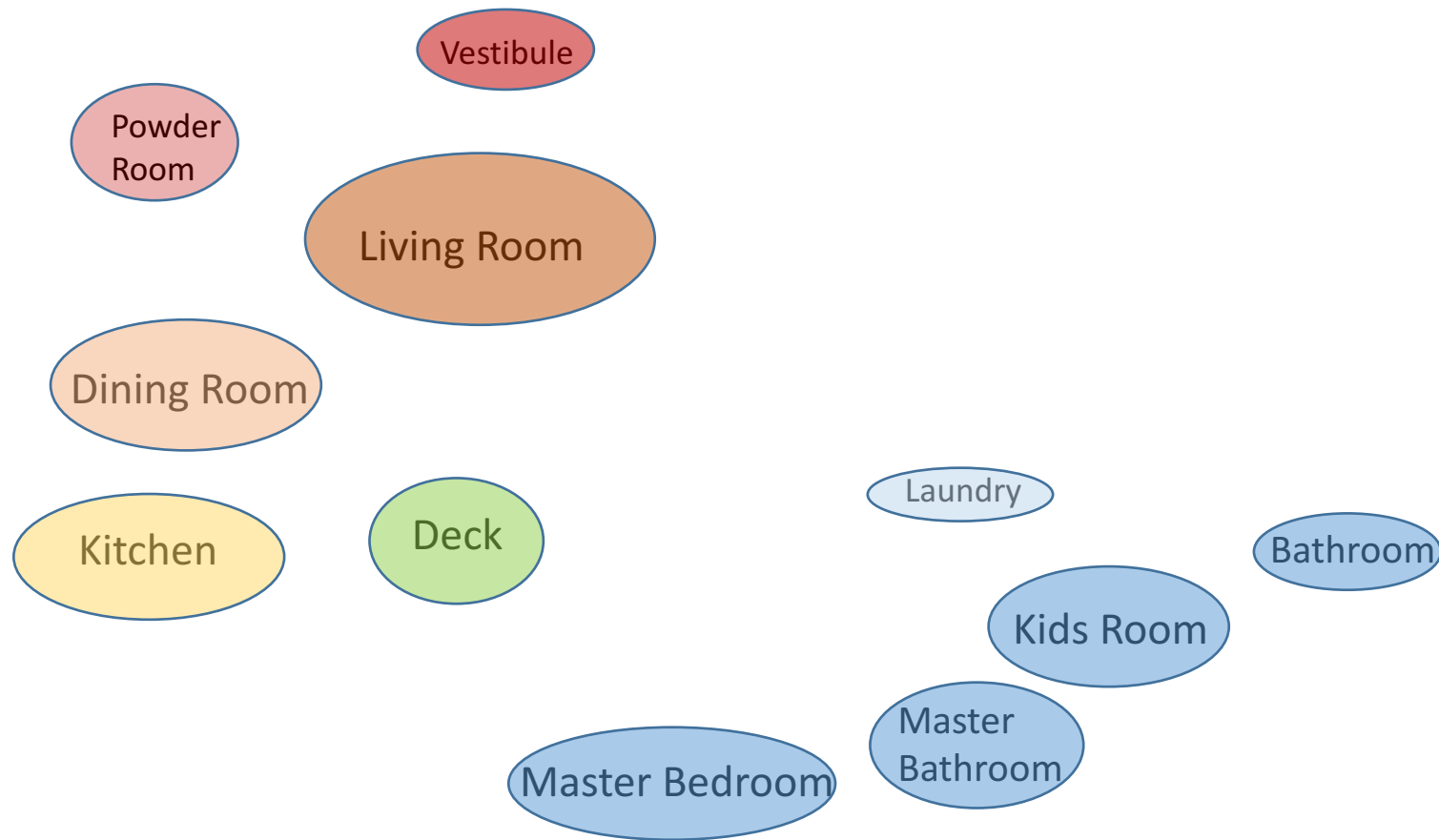| Addional Info	Area	Natural Light	Plumbing	Type of Furniture	Use of Space		Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
tiled floors	30sf			Bench, closet, hooks	Entry to House	Vestibule	▓	🟥			🟦						
	250sf	Y		Sofa, chairs, small table, tv	Formal Area	Living Room	🟥	▓	🟦	🟩						🟩	
	150sf	Y		Table+Chairs for 4	Daily eating	Dining Room		🟦	▓	🟥						🟩	
open to Dining	160sf		Y	Cabinets, range, micro, sink,dw	Daily food prep	Kitchen		🟩	🟥	▓						?	
	15sf		Y	Sink/Toilet	Toilet/sink guests/main space	Powder Room	🟦				▓						
	100sf	Y		Twin bed, desk, dresser,closet	Child bedroom	Kids Room						▓	🟥	🟩			🟩
	35sf		Y	Tub, Toilet, Sink, storage	Bathroom for Child	Bathroom						🟥	▓				🟩
	150sf	Y		Queen bed, dresser, closet	Adult bedroom	Master Bedroom						🟩		▓	🟥		🟩
Double Sinks	50sf		Y	Shower, toilet, sink, storage	Adult bathroom	Master Bathroom								🟥	▓		🟩
Gas Line	32sf	Y	Y	BBQ, Small table+chairs	Outdoor space	Deck		🟩	🟩	?				🟩		▓	
Gas + Vent	18sf		Y	Washer+Dryer	Stacked washer/dryer	Laundry						🟩	🟩	🟩	🟩		▓
						Must	🟥										
						Should	🟦										
						Would be nice	🟩										

Programming
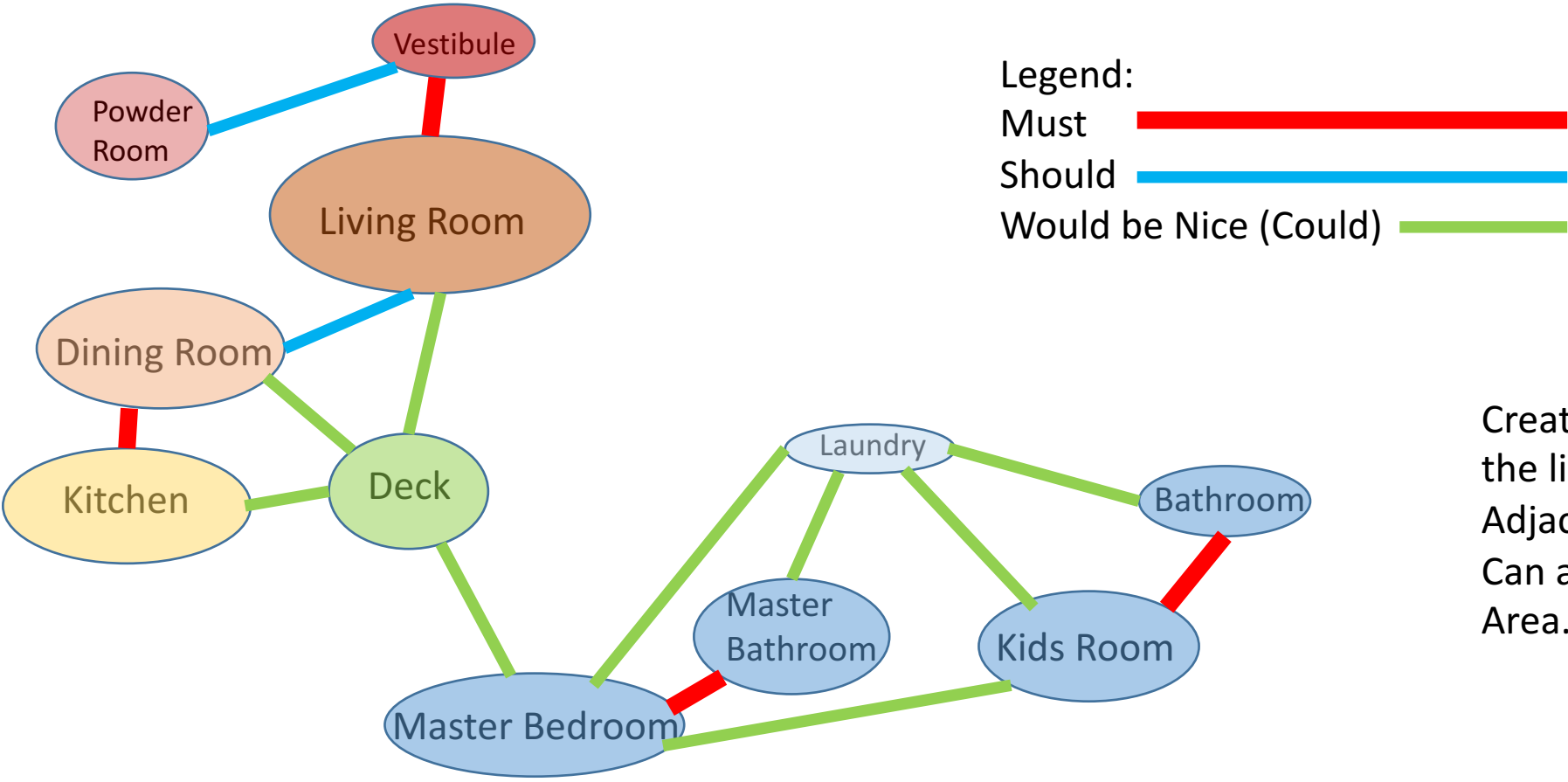*For this Example: 2 bedroom House*

Bubble Diagram

Vestibule

Powder Room

Living Room

Dining Room

Laundry

Master Bathroom

Kitchen

Deck

Bathroom

Kids Room

Master Bedroom

How can this be improved?

Programming
For this Example: 2 bedroom House

Bubble Diagram

Vestibule

Powder Room

Living Room

Dining Room

Laundry

Kitchen

Deck

Bathroom

Kids Room

Master Bathroom

Master Bedroom

Programming
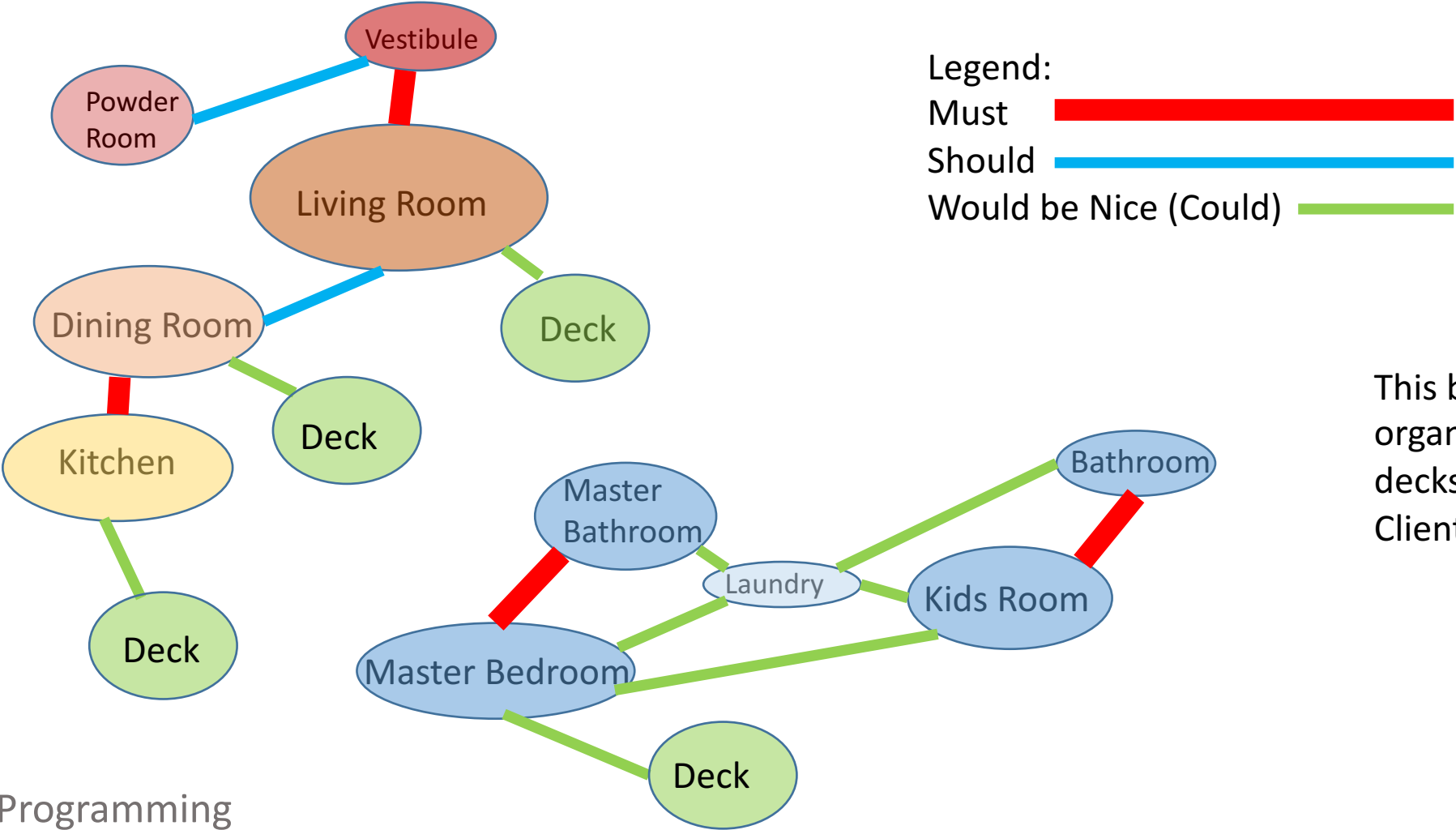*For this Example: 2 bedroom House*

Bubble Diagram

Legend:
Must
Should
Would be Nice (Could)

Create a Bubble Diagram using the list of spaces and Adjacency Matrix.
Can add color and scale bubbles to Area.

Vestibule
Powder Room
Living Room
Dining Room
Kitchen
Deck
Laundry
Bathroom
Master Bathroom
Kids Room
Master Bedroom

Programming
For this Example: 2 bedroom House

Bubble Diagram

Legend:
Must
Should
Would be Nice (Could)

This bubble diagram is more organized. It also shows multiple decks – possibilities based on site/ Client needs and cost.
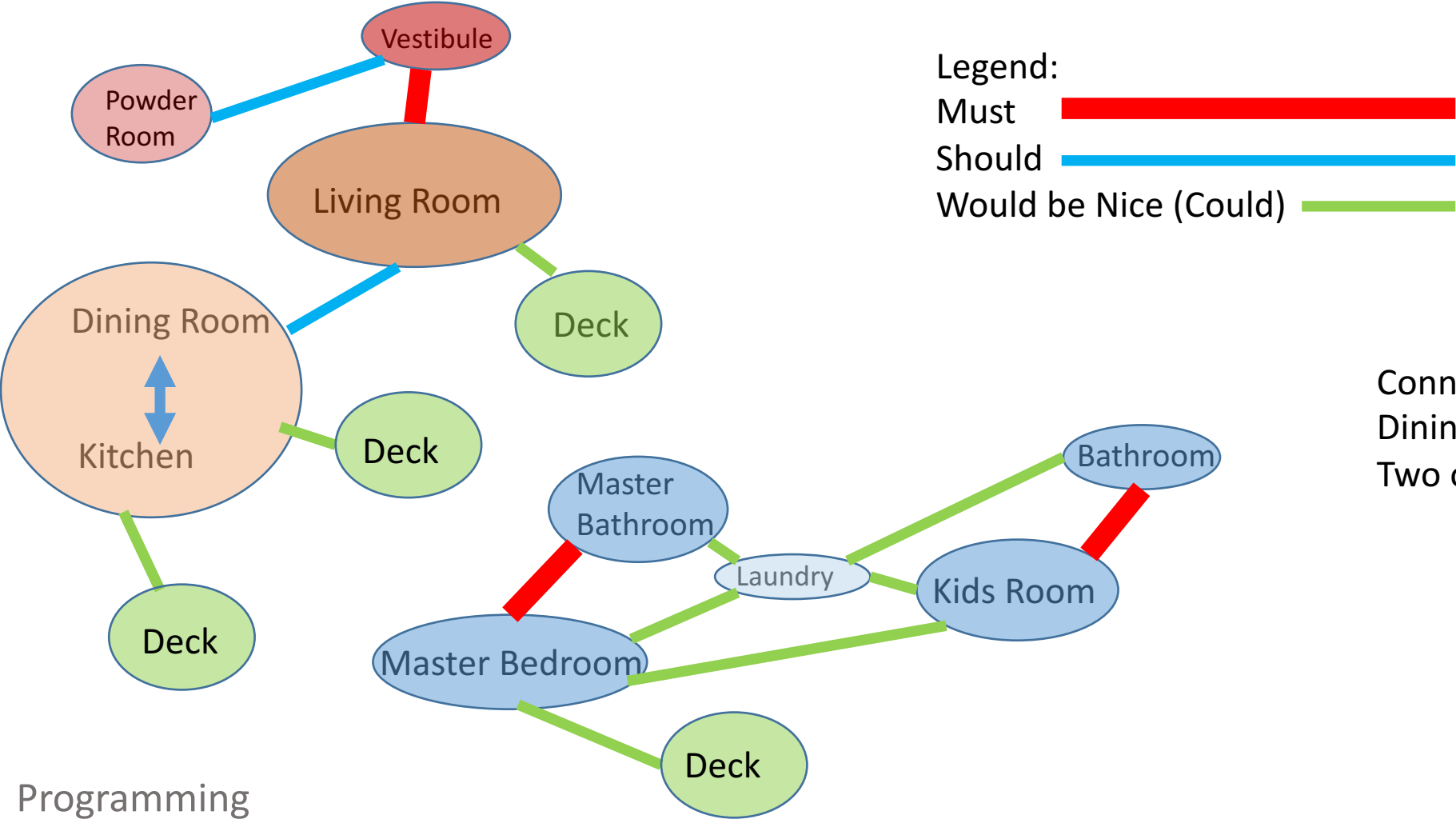
Programming
For this Example: 2 bedroom House

List of Spaces:

Addional Info	Area	Natural Light	Plumbing	Type of Furniture	Use of Space		Vestibule	Living Room	Dining Room	Kitchen	Powder Room	Kids Room	Bathroom	Master Bedroom	Master Bathroom	Deck	Laundry
tiled floors	30sf			Bench, closet, hooks	Entry to House	Vestibule											
	250sf	Y		Sofa, chairs, small table, tv	Formal Area	Living Room											
	150sf	Y		Table+Chairs for 4	Daily eating	Dining Room											
open to Dining	160sf		Y	Cabinets, range, micro, sink, dw	Daily food prep	Kitchen											?
	15sf		Y	Sink/Toilet	Toilet/sink guests/main space	Powder Room											
	100sf	Y		Twin bed, desk, dresser, closet	Child bedroom	Kids Room											
	35sf		Y	Tub, Toilet, Sink, storage	Bathroom for Child	Bathroom											
	150sf	Y		Queen bed, dresser, closet	Adult bedroom	Master Bedroom											
Double Sinks	50sf		Y	Shower, toilet, sink, storage	Adult bathroom	Master Bathroom											
Gas Line	32sf	Y	Y	BBQ, Small table+chairs	Outdoor space	Deck			?								
Gas + Vent	18sf		Y	Washer+Dryer	Stacked washer/dryer	Laundry											
						Must											
						Should											
						Would be nice											

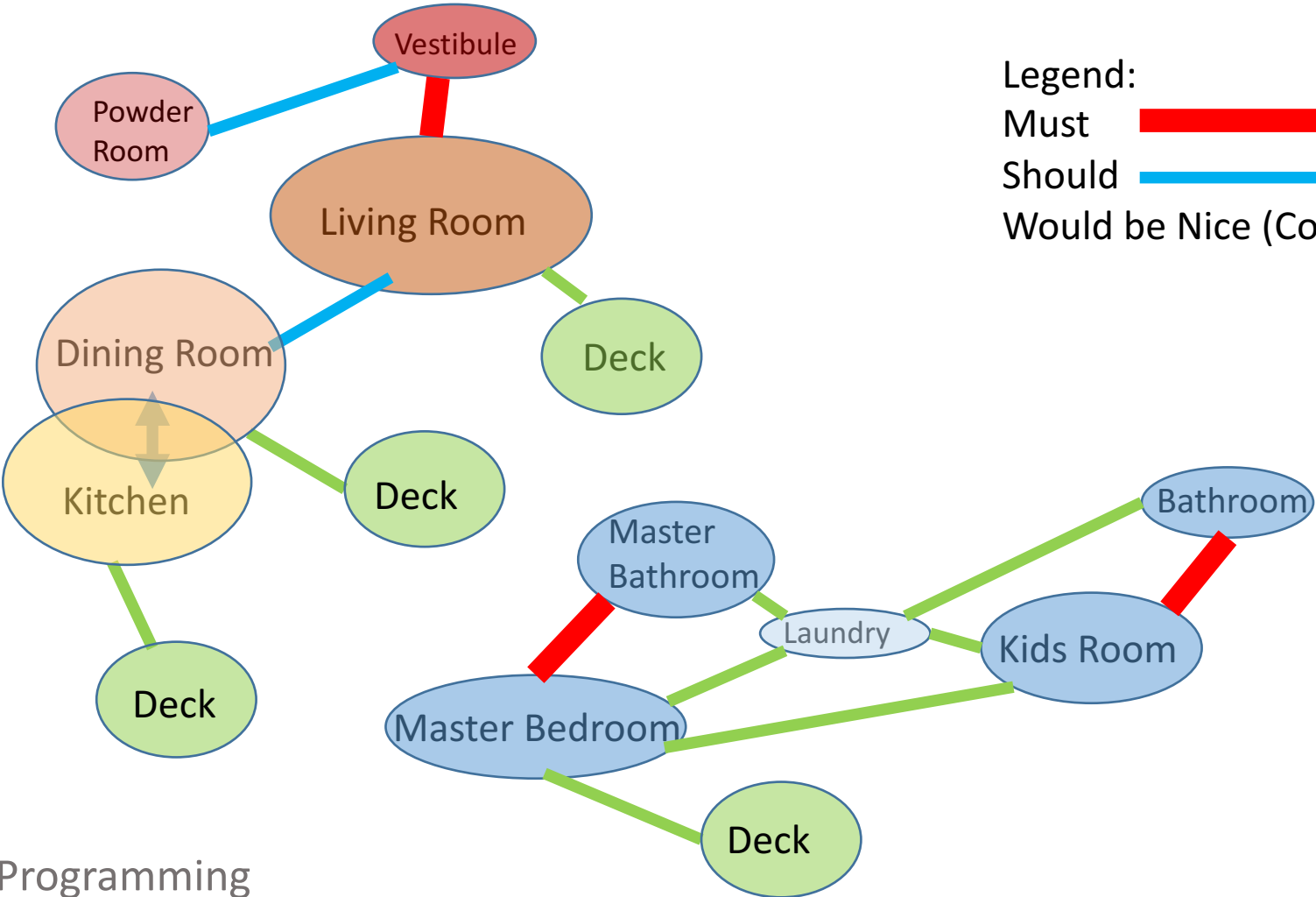Programming   ARCH 3512

Programming
For this Example: 2 bedroom House

Bubble Diagram

Vestibule

Powder Room

Living Room

Deck

Dining Room

Kitchen

Deck

Deck

Master Bathroom

Laundry

Bathroom

Kids Room

Master Bedroom

Deck

Legend:
Must
Should
Would be Nice (Could)

Connection between kitchen and Dining room – in one bubble or Two overlapping bubbles.