

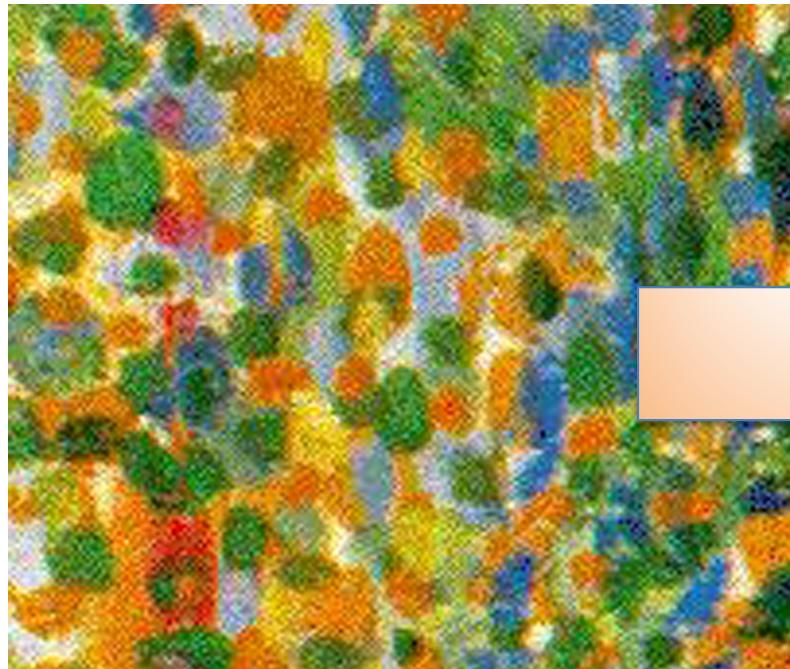


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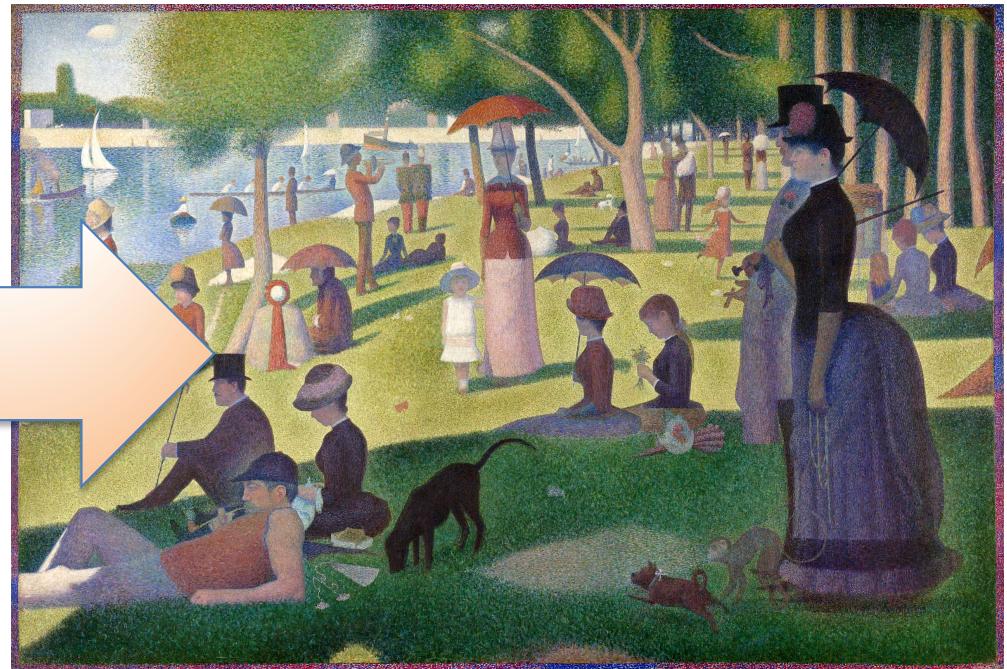
**ENGR 1110**

Module 7 Lecture

## Keeping perspective

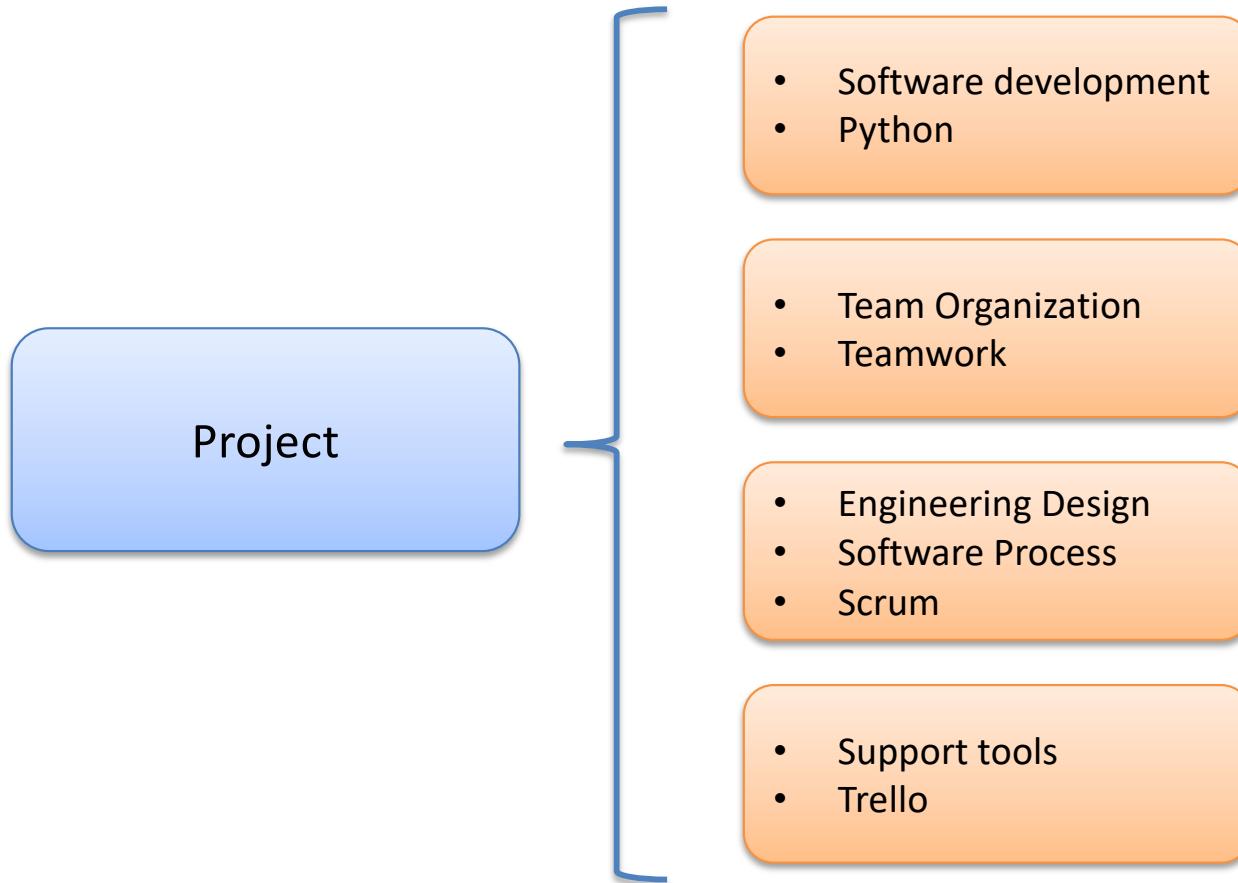


<https://www.principlegallery.com/technique-tuesday-pointillism-take-two/>



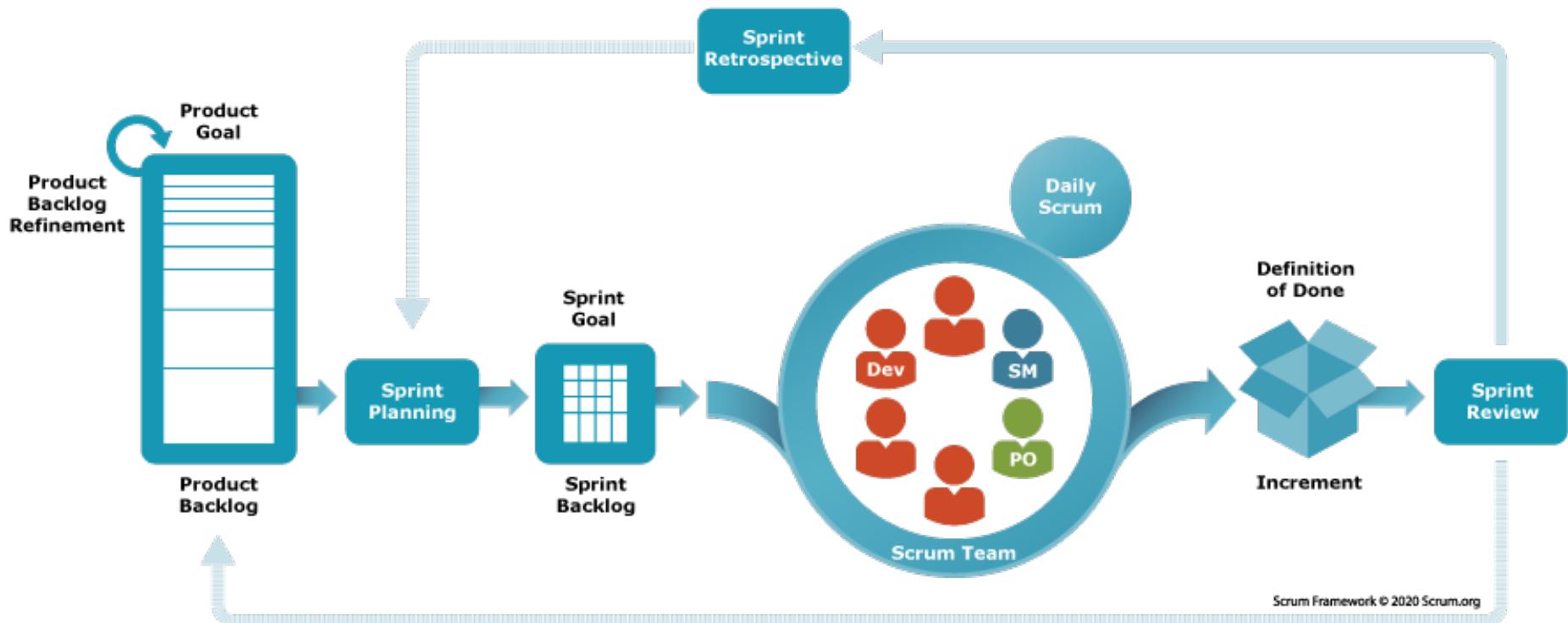
Georges Seurat, *A Sunday Afternoon on the Island of La Grande Jatte*, 1884-86,  
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## Team Project



## **Scrum For This Module**

# Scrum

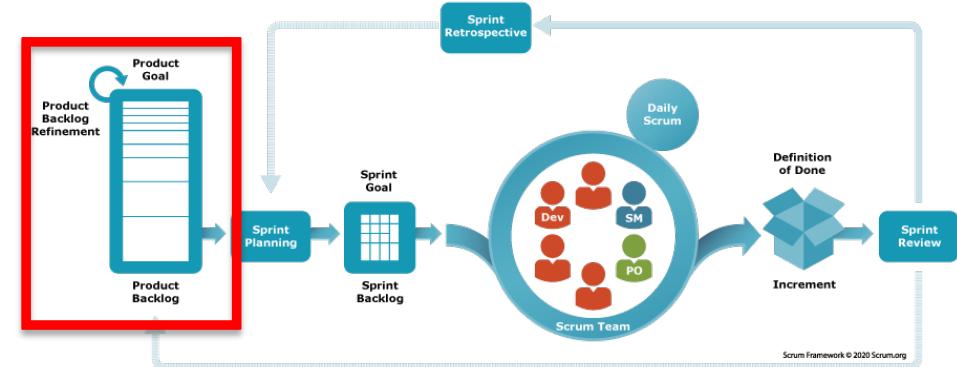


# Scrum

“The **Product vision** describes the purpose of a Product, the intention with which the Product is being created, and what it aims to achieve for customers and users. The Product vision describes a future state of the Product and what problems it tries to resolve or what ambitions it tries to fulfill.”

“A good vision is about resolving a problem or achieving an [idea]. Don’t make the vision (too) technical, focus it on value.”

An example vision template:



**For** (target customer)

**Who** (statement of need or opportunity)

**The** (product name) **is a** (product category)

**That** (key benefit, reason to buy)

**Unlike** (primary competitive alternative)

**Our product** (statement of primary differentiation)

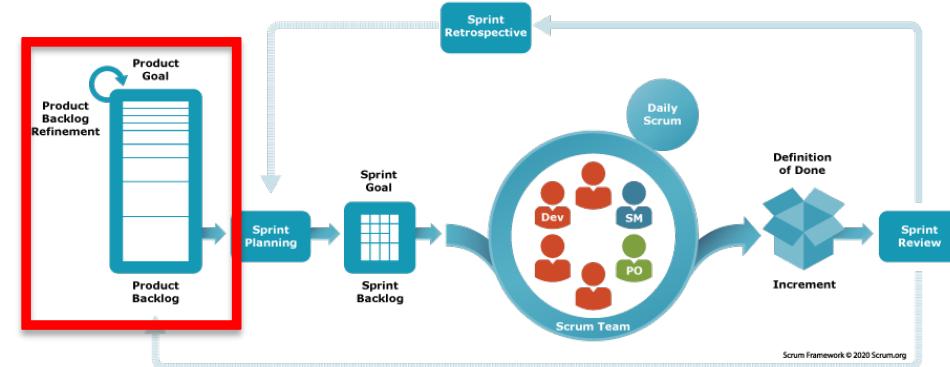
# Scrum

“The **Product Goal** describes a future state of the product which can serve as a target for the Scrum Team to plan against. The Product Goal is the long-term objective for the Scrum Team. The Product Backlog Items define what will fulfill the Product Goal as the Scrum Team learns more about how to achieve the goal while working each Sprint. The Product Goal is therefore a simple directional statement that provides context and purpose (of the work) for the Scrum Team and its stakeholders.”

“When formulating a Product Goal, it should be:

- Aligned with and makes progress toward the Product Vision
- Clear and concise
- Outcome-driven to reflect a customer want or need
- Measurable
- Transparent with a shared understanding across the Scrum Team and stakeholders.”

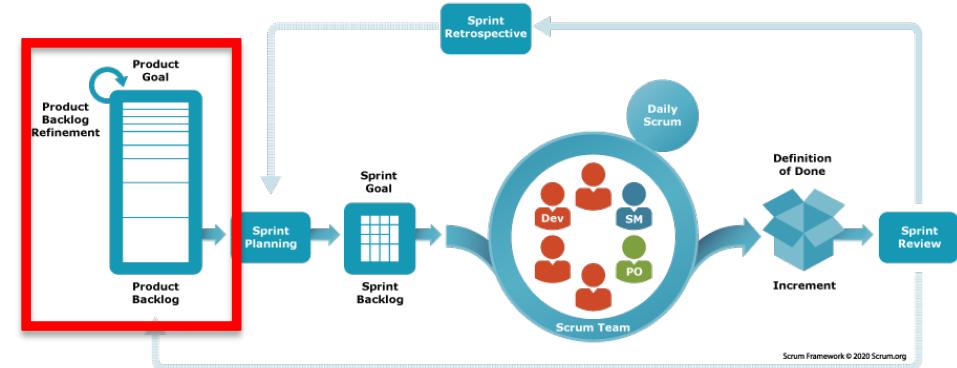
*There can be multiple product goals that, taken together, describe the overall goal of the project.*



# Scrum

“The **Product Backlog** is an emergent, ordered list of what is needed to improve the product. It is the single source of work undertaken by the Scrum Team.”

“Product Backlog refinement is the act of breaking down and further defining Product Backlog items into smaller more precise items. Refinement can occur at any time during a Sprint, in a more formal meeting or meetings, on an ongoing basis or as needed. Refinement is not mandatory, however it is a good practice to consider in order to increase transparency and make work items more precise.”



Think of the Product Backlog as an ordered list of features that, when implemented, will achieve product goals and ultimately the product vision.

There are different means of expressing items in the Product Backlog (like User Stories), but most any informal statements of **features, functions, or requirements** that work for your team will be fine for the class project.

# Scrum

*Example: (adapted from source below)*

## Product Vision:

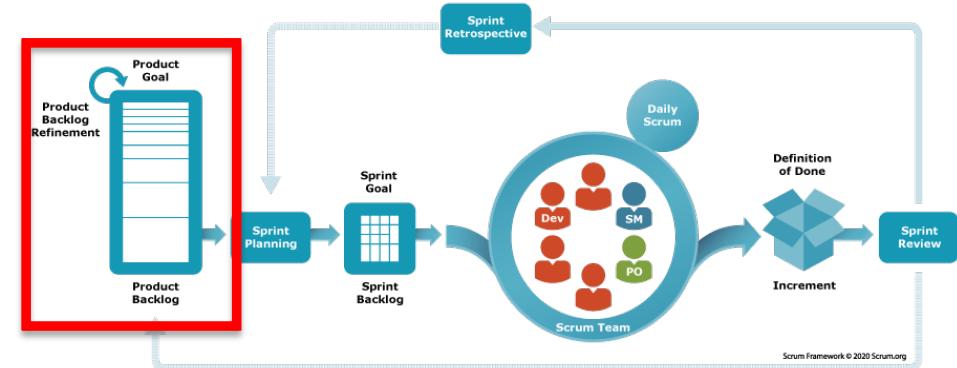
Be the leading online bakery in the state.

## Product Goals:

Goal 1: Launch a website that allows sales to customers inside Auburn.

Goal 2: Expand production/delivery to allow sales across Alabama.

Goal 3: Expand online presence via the Apple and Google Play app stores.



## Product Backlog:

1. Create a basic website structure.
2. Build capacity to list and purchase products using a credit card.
3. Many more here...
4. Launch website and fulfill the first orders.
5. Many more here...

# Scrum

*Example: (adapted from source below)*

## Product Vision:

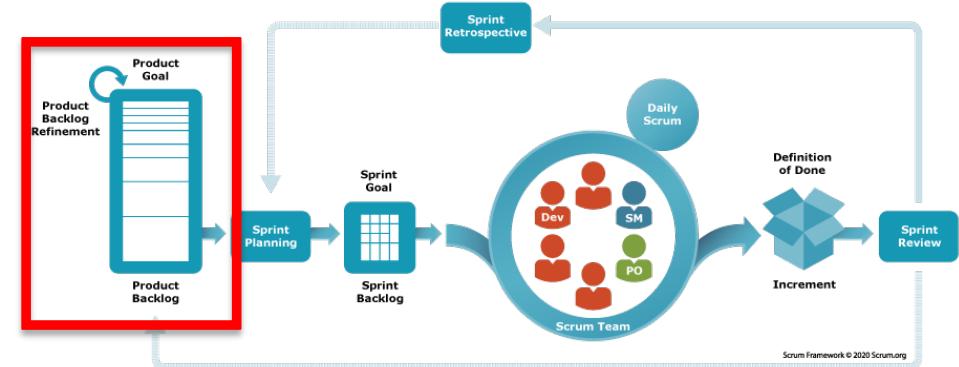
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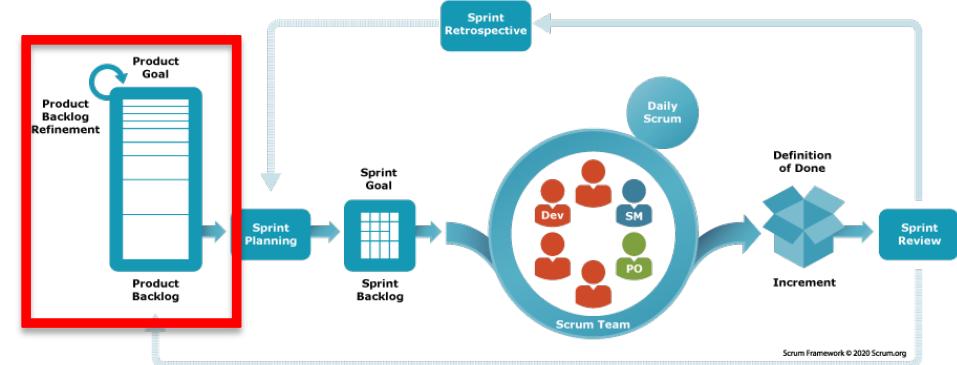
# Scrum in ENGR 1110

## Project Planning

Project planning will be done collaboratively by the team and will culminate in a Project Concept.

The **Project Concept** is a document that contains:

1. The name and brief bio-sketch of each team member, along with the member's role(s) – Developer, Product Owner, Scrum Master.
2. The Product Vision.
3. The Product Goal(s).
4. An initial Product Backlog.
5. A link to the public Trello board that will be used to manage and document the teams' project work.



**Project Concept:  
100 points, Due March 17**

## **Python – Lists, Dictionaries, Modules; Process – Using Trello to Manage Work**



>—  
**ENGR 1110:**  
**Introduction to**  
**Software Engineering**

Multiple instructors  
SPRING 2024

## Chapter 9. Lists & Dictionaries

- 9.16 LAB: Varied amount of input data Lab
- 9.17 LAB: Filter and sort a list Lab
- 9.18 LAB: Contact list Lab
- 9.19 LAB: Car wash Lab

## Chapter 10. Modules

- 10.8 LAB: Guess the random number Lab
- 10.9 LAB: Quadratic formula Lab
- 10.10 LAB: Dates Lab
- 10.11 LAB: Radioactive decay Lab



- Team assignment with individual responsibilities & grades
- Each team member responsible for one lab from Ch 9 and one lab from Ch 10
- Use Trello to guide, plan, and **document** your work
- **Each team member submit a link to your Trello board as your turn-in.**