

YCAL Symposium Dallastown Area School District

Computer Programming using Scrum Framework



The Presenters

Kyle McAllister

- Teacher of 13 years
- Reintroduced Computer Programming at Dallastown HS
- Includes 3 courses, including AP with over 150 students



The Presenters

Todd Miller

- Celerity Delivery Directory
- 13 years in the software development industry as a Developer, ScrumMaster, Product Owner or Agile Coach
- Scrum/Kanban/Lean/Extreme Programming/Agile



WHAT'S HOLDING YOU BACK?

The Presenters – Scrum



2014 YCAL Grant Recipient

Grant written to provide supplemental materials for Computer Programming Course

Xbox 360

Television

Controllers for Computer and Console



WHAT'S HOLDING YOU BACK?

Scrum

An introductory discussion of the Roles, Ceremonies and Artifacts that make up the Scrum framework.



Empirical Process Control

- Scrum is not a **process** or a technique for building products; rather, it is a framework within which you can employ various **processes** and techniques.
- **Empirical** - based on, concerned with, or verifiable by observation or experience rather than theory or pure logic.
- Three Pillars of Empirical Process Control:
 1. **Inspect** - careful examination or scrutiny.
 2. **Adapt** - become adjusted to new conditions.
 3. **Transparent** - easy to perceive or detect.

Scrum Framework

Roles

Product Owner
ScrumMaster
Development Team

Events

Daily Scrum
Retrospective
Sprint Review
Sprint Planning

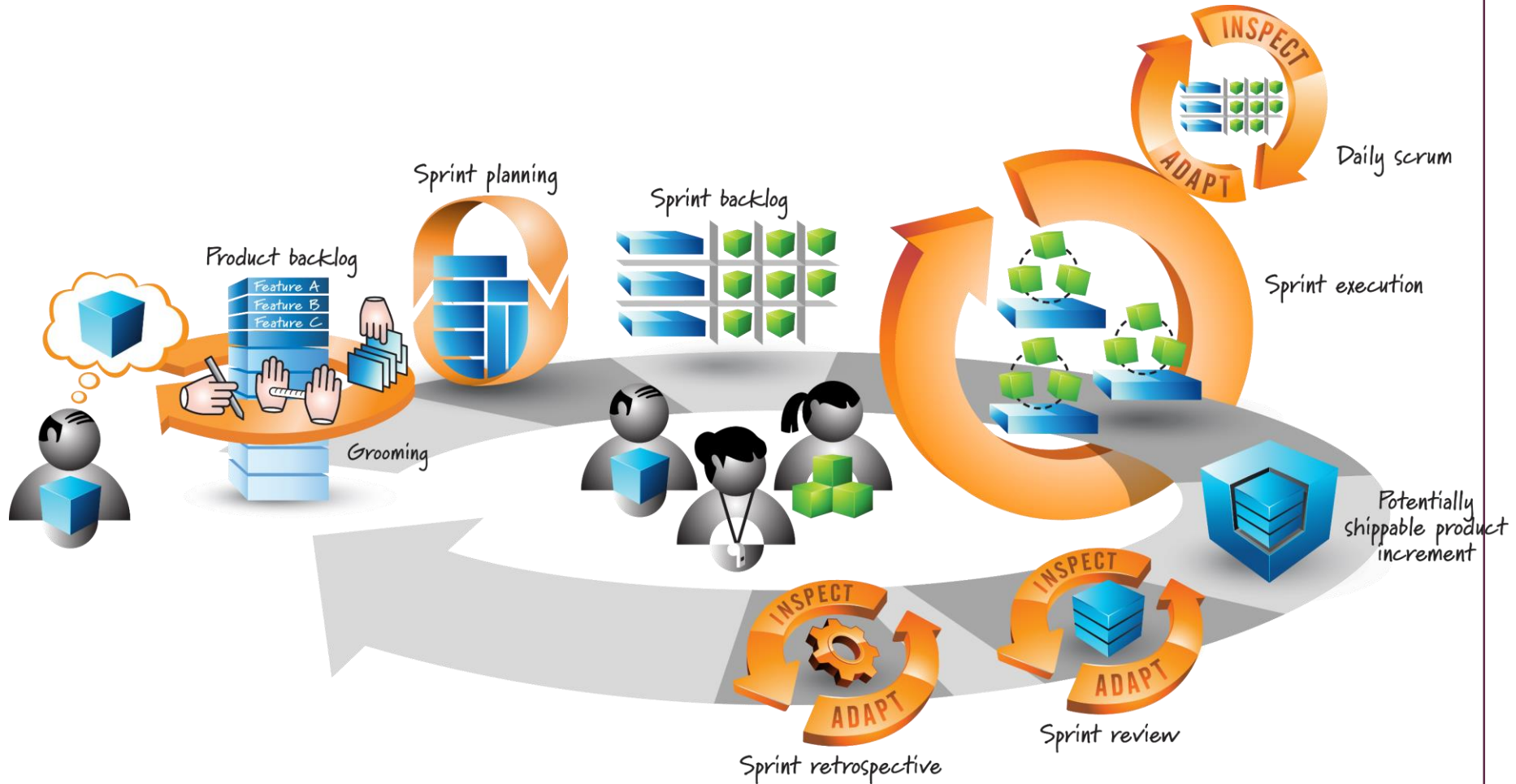
Artifacts

Sprint
Product Backlog
Sprint Backlog

Sample Two Week Sprint Cadence

	We	Th	Fr	Mo	Tu	We	Th	Fr	Mo	Tu
8 AM										
9 AM	Sprint Planning		Refinement				Refinement			
10 AM		Daily Scrum								
11 AM										
12 PM										
1 PM										Sprint Review
2 PM										
3 PM										Retrospective
4 PM										
5 PM										

Scrum in a Picture



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Teaching Connections



You can utilize Scrum in your course

SPRINT 1 - INTRODUCTION TO COURSE

Code.org Introduction

 Watch the code.org Introduction Video

Create a User Name and Password for the Code.Org site

 Complete the 20 Maze Puzzle Problems from Code.org

Additional Code.org Activity

LightBot

Backlog

 Choose your own at Code.org

JavaScript

 Code Combat - Begin Your Adventure

 Sprint Reflection