

# Introduction To Agile Development

Medill School of Journalism, Northwestern University  
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# Process?

## **Many answers**

Waterfall, Six Sigma, ISO9000, XP, Scrum, Lean, Crystal etc.

## **Why?**

Where, who, what, when to do that specific task instead of another.



# Agile Manifesto

“ We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

- ***Individuals and interactions over processes and tools***
- ***Working software over comprehensive documentation***
- ***Customer collaboration over contract negotiation***
- ***Responding to change over following a plan***

That is, while there is value in the items on the right, we value the items on the left more.”



# Trends

**Scrum:** business focus, self-organizing team

**XP:** developer focus, story-based

**Lean:** executive focus, eliminate waste



# Overlapping Roles

**Product Owner:** new features, prioritizes

**Developer:** feature => working code

**QA:** check acceptances criteria



# Iteration

Time boxed subset execution

Shippable increment showcased at the end

All iterations => full product



# Planning Game

Beginning of the iteration

Feature selection for next product increment

Features discussion

Refine estimates

Ready to Play!



# Done Done Done

A different perspective:

Developer done => QA showcase

QA done => Product Owner showcase

Product Owner done => feature signature



|    | A                                 | B          | C               | D             | E          | F               |
|----|-----------------------------------|------------|-----------------|---------------|------------|-----------------|
| 1  | <b>Product Backlog</b>            |            |                 |               |            |                 |
| 2  |                                   |            |                 |               |            |                 |
| 3  | <b>Requirement</b>                | <b>Num</b> | <b>Category</b> | <b>Status</b> | <b>Pri</b> | <b>Estimate</b> |
| 4  | log credit payments to AR         | 17         | feature         | underway      | 5          | 2               |
| 5  | process sale-simple cash scenario | 232        | use case        | underway      | 5          | 60              |
| 6  | slow credit payment approval      | 12         | issue           | not started   | 4          | 10              |
| 7  | sales commission calculation      | 43         | defect          | complete      | 4          | 2               |
| 8  | lay-away plan payments            | 321        | enhance         | not started   | 3          | 20              |
| 9  | PDA sale capture                  | 53         | technology      | not started   | 1          | 100             |
| 10 | process sale-credit pmt scenario  | 235        | use case        | underway      | 5          | 30              |
| 10 | process sale-credit pmt scenario  | 232        | use case        | underway      | 2          | 30              |
| 8  | PDA sale capture                  | 23         | technology      | not started   | 1          | 100             |
| 8  | lay-away plan payments            | 321        | enhance         | not started   | 3          | 20              |



|    | A                             | B                 | C                  | D             | E                              | F          | G          | H          | I          |
|----|-------------------------------|-------------------|--------------------|---------------|--------------------------------|------------|------------|------------|------------|
| 1  | <b>Sprint Backlog</b>         |                   |                    |               |                                |            |            |            |            |
| 2  | <b>Task Description</b>       | <b>Originator</b> | <b>Responsible</b> | <b>Status</b> | <b>Hours of work remaining</b> |            |            |            |            |
| 3  |                               |                   |                    |               | <b>6</b>                       | <b>7</b>   | <b>8</b>   | <b>9</b>   | <b>10</b>  |
| 4  |                               |                   |                    |               | <b>362</b>                     | <b>322</b> | <b>317</b> | <b>317</b> | <b>306</b> |
| 5  |                               |                   |                    |               |                                |            |            |            |            |
| 5  | Meet to discuss the goals and | JM                | JM/SR              | Completed     | 20                             | 10         | 0          | 0          | 0          |
| 6  | Move Calculations out of      | TL                | AW                 | Not Started   | 8                              | 8          | 8          | 8          | 8          |
| 7  | Get GEK Data                  |                   | TN                 | Completed     | 12                             | 0          | 0          | 0          | 0          |
| 8  | Analyse GEK Data - Title      |                   | GP                 | In Progress   | 24                             | 20         | 30         | 25         | 20         |
| 9  | Analyse GEK Data - Parcel     |                   | TK                 | Completed     | 12                             | 12         | 12         | 12         | 12         |
| 10 | Define & build Database       |                   | BR/DS              | In Progress   | 80                             | 80         | 75         | 60         | 52         |
| .. |                               |                   |                    |               |                                |            |            |            |            |

|    |                           |  |       |             |    |    |    |    |    |
|----|---------------------------|--|-------|-------------|----|----|----|----|----|
| .. |                           |  |       |             |    |    |    |    |    |
| 10 | Define & build Database   |  | BR/DS | In Progress | 80 | 80 | 75 | 60 | 52 |
| 9  | Analyse GEK Data - Parcel |  | TK    | Completed   | 12 | 12 | 12 | 12 | 12 |
| 8  | Analyse GEK Data - Title  |  | GP    | In Progress | 24 | 20 | 30 | 25 | 20 |



# Standup

At the beginning of a session:

What we've done the last session

What we are going to do this session

Any impediment on my way?

Are we on track?



# Tracking

At the end of the session:

Which feature we worked on?

Is it done?

How long do you think it will take?

Are we on track?



# For the next 10 weeks

Release something every iteration

Showcase features when developer-done

Always keep an open communication channel

The next iteration will go better!



**5 mins BREAK!**



# Practice Time #1

Analyze a nice already existent app

Understand the features

Create a backlog (product and sprint)

Simulate an iteration



<http://boston.com/bigpicture/>

# The Big Picture

News stories in photographs

FAQ | About | RSS

By Alan Taylor

## ARCHIVES

Select a month

• Earth Hour 2009 - 03.30

• Red River flooding - 03.27

• Mexico's drug war - 03.25

## CATEGORIES

Select a category

Big Picture Notes: [SXSW wrap-up and a few notes](#) - 03.19

11 comments

April 1, 2009

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## Recent scenes from Afghanistan

Since he took office in January, President Barack Obama has ordered an additional 21,000 U.S. troops to be deployed to Afghanistan, which will bring the full U.S. deployment there to a total of 60,000 troops, joining 39,000 coalition troops from 43 countries. The U.S. administration plans to impose benchmarks for progress on both Afghanistan and neighboring Pakistan, who struggle with problems tied to tribal rivalries, illegal drug production and distribution, religious factions, general instability and poverty. Collected here are photographs from the past few months of the situation in Afghanistan and the lives that continue to be affected by it. (43 photos total)



An Afghan village seen from above, amidst fields of opium poppy and wheat in Farah Province, Afghanistan on March 17, 2009. U.S. Marines, who expanded into the area last November, are soon to be joined by thousands more American troops as part of an additional 17,000 U.S. forces being sent to the war. (John Moore/Getty Images)

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March 30, 2009

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Earth Hour 2009

Started in Sydney, Australia in 2007, Earth Hour quickly grew into a global observance. More than 1,000 cities in over 80 countries observed Earth Hour 2009 on Saturday March 28th, as homes, office towers and landmarks turned off their lights for an hour starting at 8:30 pm local time to raise awareness about climate change and the threat from rising greenhouse gas emissions. Collected here are a series of before-and-after photographs - which (starting with the

A combination of handout pictures shows a view of the Taipei 101 building before and after (L-R) Earth Hour in Taipei March 28, 2009. More than 80 countries have signed up for Earth Hour on Saturday in which homes, office towers and landmarks will turn off their lights from 8:30 pm local time to raise awareness about climate change and the threat from rising greenhouse gas emissions. (REUTERS/Taipei 101/Hendrix)

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March 27, 2009

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Red River flooding

The Red River is approaching record flood levels, likely to break century-old records this weekend. Flooding north toward Manitoba along the Minnesota-North Dakota border, the river is jammed up by ice and is being fed by rain, snow and meltwater. The National Weather Service has issued projections of a crest of 43 feet near Fargo, North Dakota, 20 feet above flood stage. Volunteers and national guardmen are out in force, building levees, moving and evacuating those that need to get to higher ground. Cold temperatures are hampering efforts, freezing damp sandbags and making the job that much more arduous for volunteers. 800 more National Guard troops and 100 Red Cross personnel are arriving to the area this weekend. (39 photos total)





**43** U.S. Marines patrol through a sand storm on March 22, 2009 in remote Qalanderabad in southwest Afghanistan. (John Moore/Getty Images) #

#### MORE LINKS AND INFORMATION

[Obama Sets New Afghan Strategy](#) - NYTimes.com 3/26

[Afghanistan's Korengal Valley Big Picture](#) 11/12/08

[In Afghanistan with the ISAF Big Picture](#) 10/08/08

[Afghanistan](#) - NYTimes.com Topics page

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#### 11 COMMENTS SO FAR...

1. God bless our troops

Posted by Jose April 1, 09 12:36 PM

2. #31 is excellent!

Posted by Verlage\_Photo April 1, 09 12:40 PM

3. get the troops out of the now!!!  
let them fight there own war

Posted by john April 1, 09 12:45 PM

4. #33 is excellent.

Posted by Paul April 1, 09 12:50 PM

#### ARCHIVES

Select a month

#### CATEGORIES

Select a category

#### RECENT ENTRIES

- [Earth Hour 2009](#) - 03.30
- [Red River flooding](#) - 03.27
- [Mexico's drug war](#) - 03.25
- [Signs of Spring](#) - 03.23
- [Scenes from 30,000 meters above](#) - 03.20
- [Undersea eruptions near Tonga](#) - 03.19
- [Scenes from the recession](#) - 03.18

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# Practice Time #2

Write only 5 features of your assignment

Fill the product backlog

What feature brings the highest value?

Assume you have an 8 hours iteration

What goes on the Sprint Backlog?