The ‘Agile Movement’

An introduction to agile software development

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EUROPYTHON 2013

FLORENCE, JULY 1-7 | 1-5 TALKS 6-7 SPRINTS

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Agenda

Who are we?

Waterfall vs Agile
The Agile lifecycle

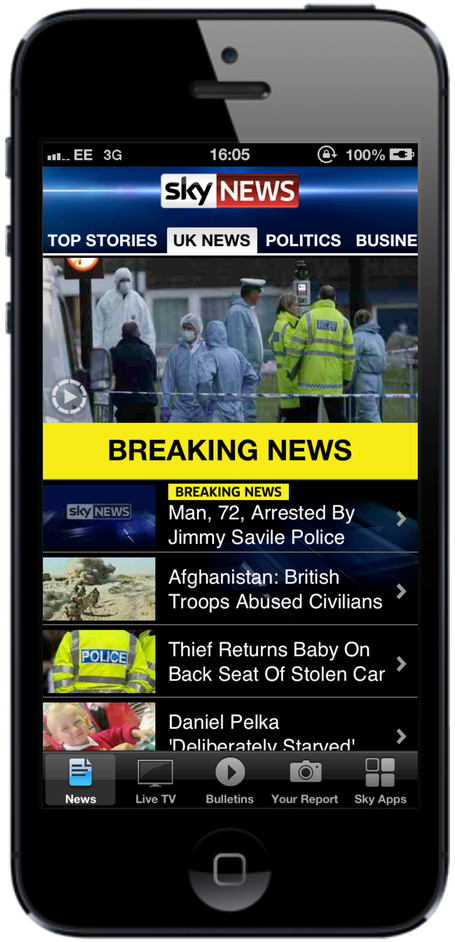
The Agile team
Agile meetings & events

Become more Agile today!

Who are we?

British Sky Broadcasting

- Provide TV, Phone, Broadband, Mobile Apps and IPTV
- Over 11 million customers
- Agile development using Java, PHP, Ruby, Objective C & Python



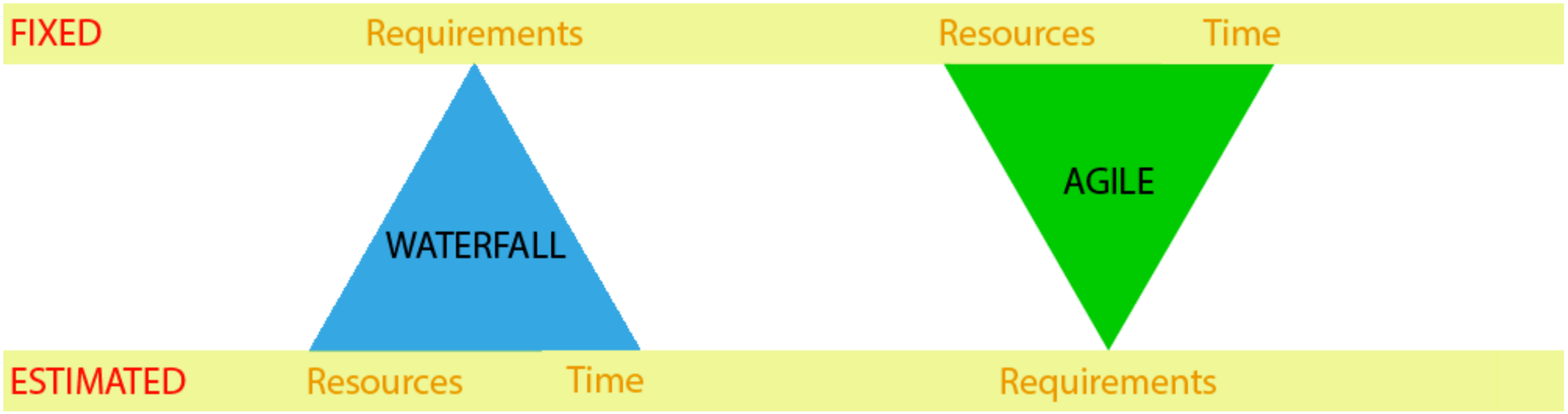
Product and Offer Management

Product catalogue service within Sky's Sales platform

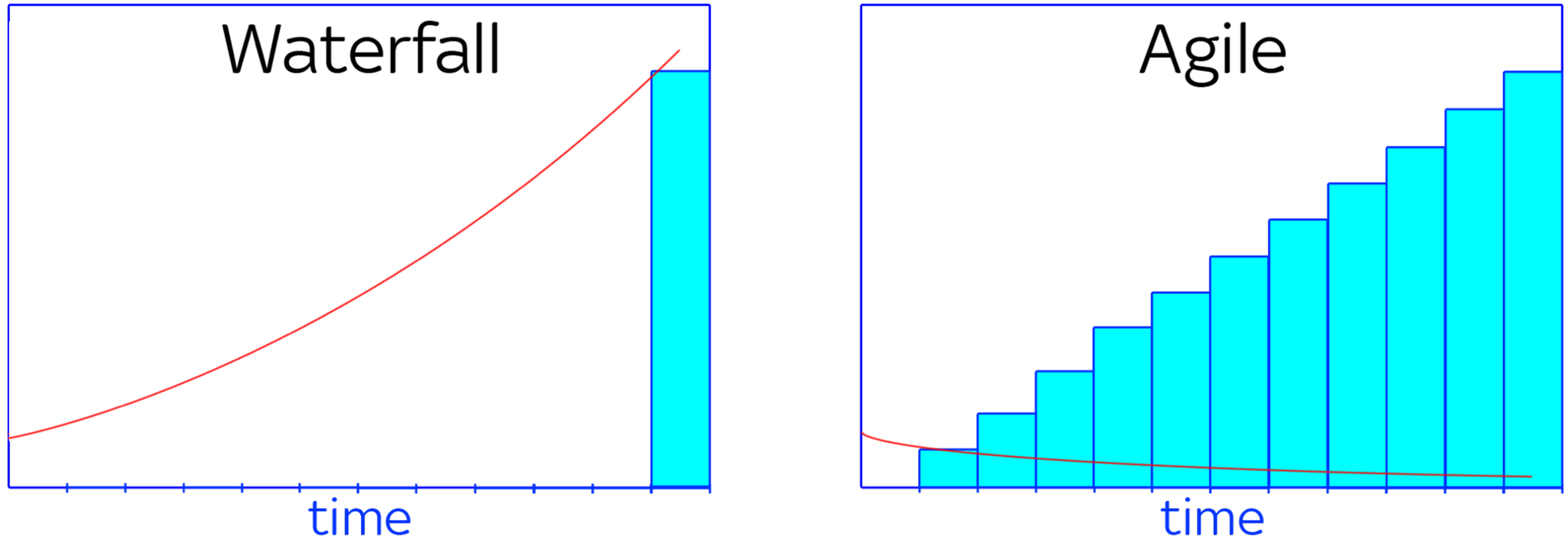
- Rest API using **Flask**
- Testing with **Nose**, **Freshen**, **Coverage** & **Pylint**
- **Paver** for build, test and deployment scripting

Waterfall vs Agile

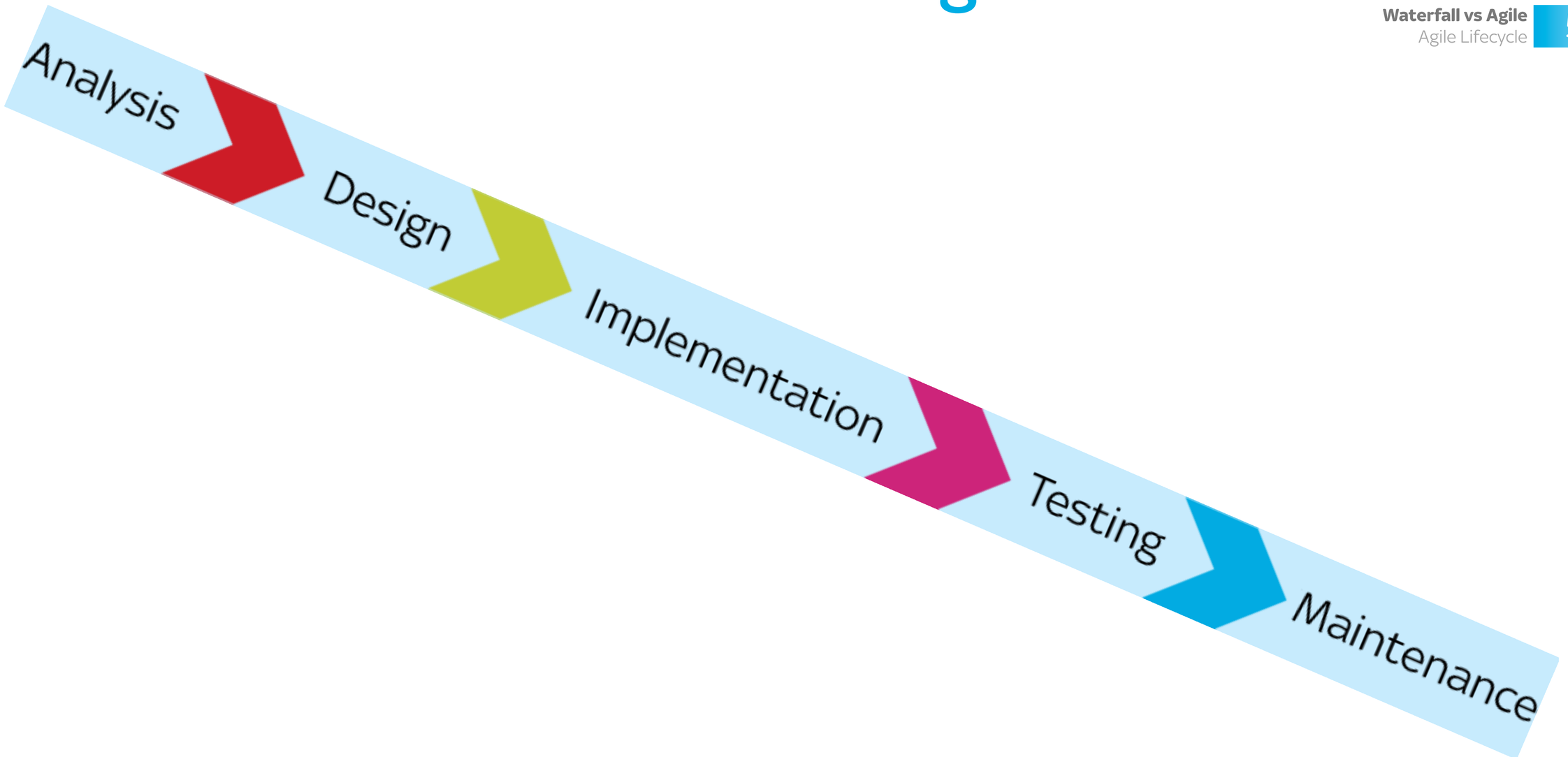
Waterfall vs Agile



Waterfall vs Agile



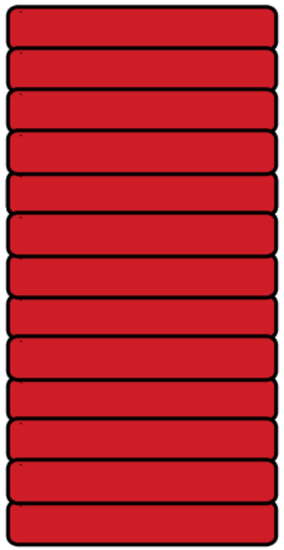
Waterfall vs Agile



The Agile Lifecycle

Sprint

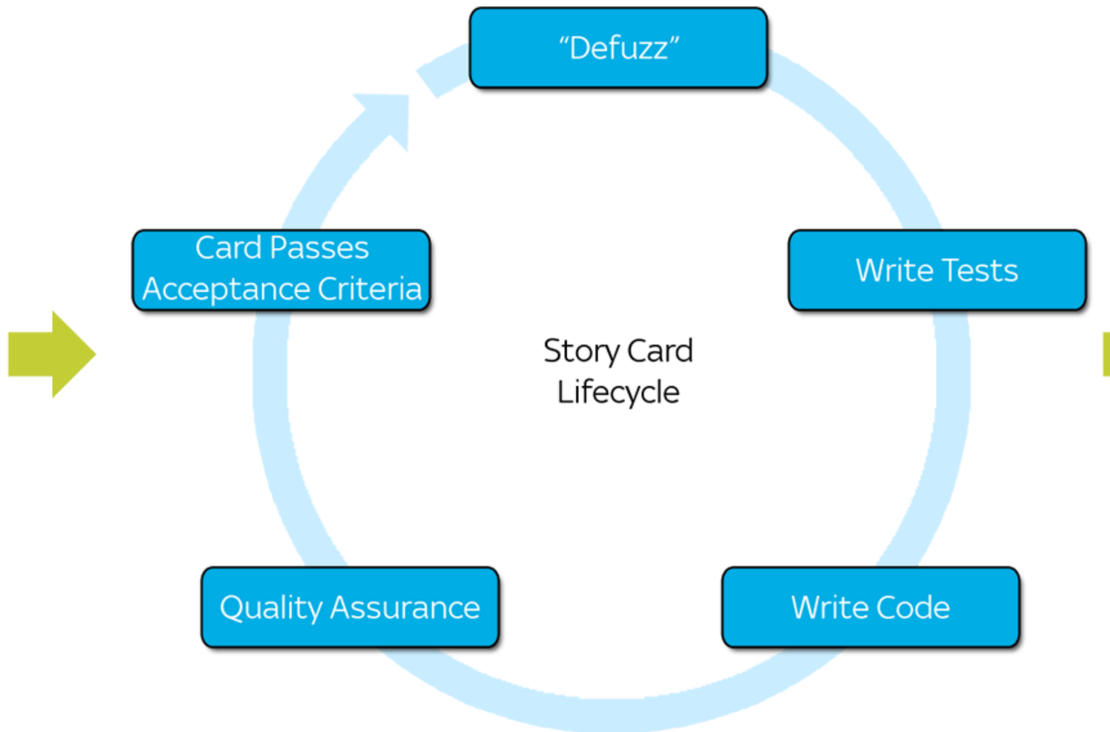
Entire project broken down in to tasks, known as 'story cards'



Product Backlog

Plan which story cards can be delivered this sprint

Sprint Backlog



ITERATIVE - QUALITY

Agile comes in many flavours

The 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"

- 2001 Agile Manifesto

Our Agile Team

Our Agile Team

Scrum Master

Analyst

Quality Assurance

Developers

Scrum Master

Analyst

Scrum Master

Analyst

Quality Assurance

Developers

Quality Assurance

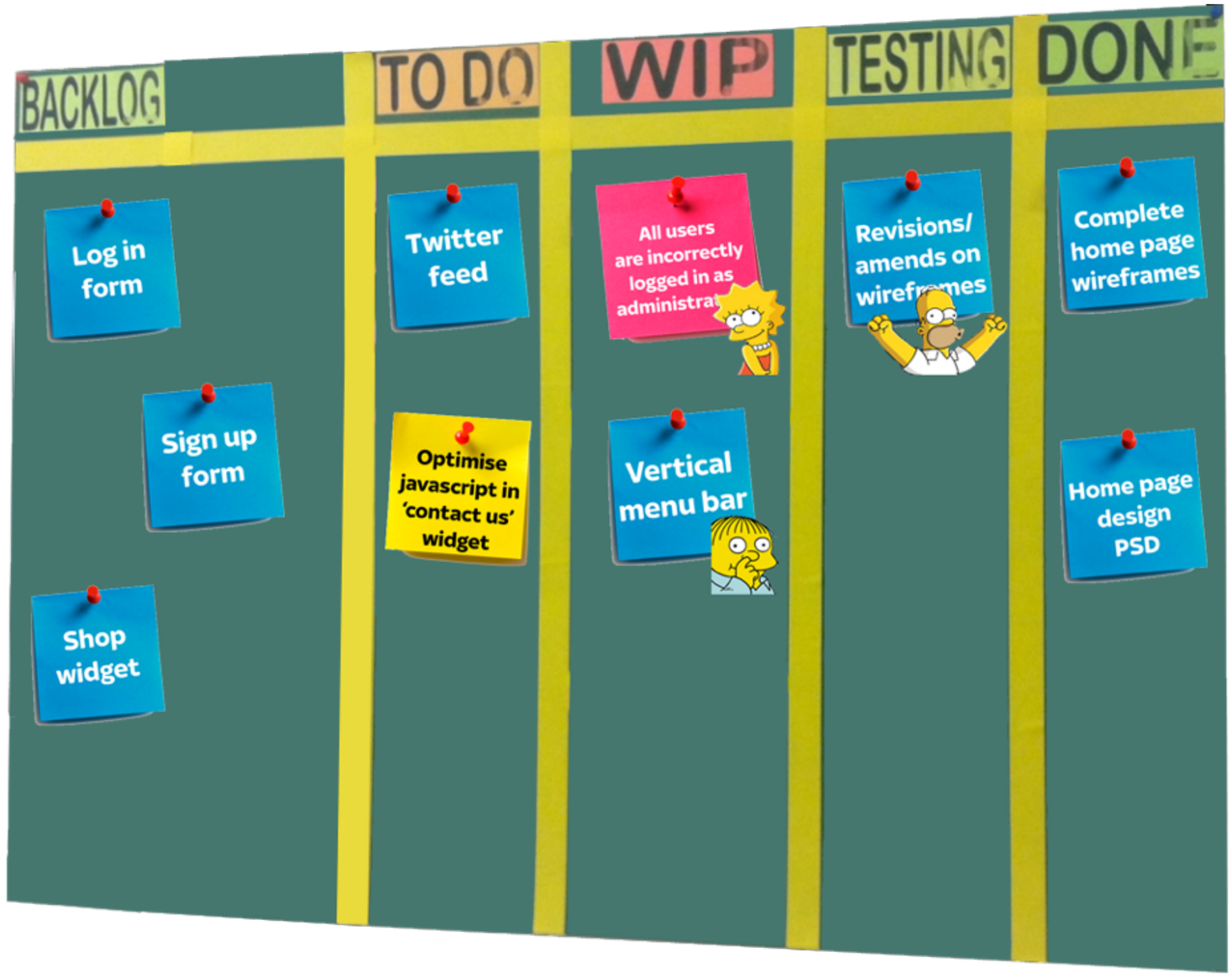
The Agile Lifecycle

The Scrum Board

STORY CARD

TECHNICAL DEBT

DEFECT



COMMUNICATION - COLLABORATION

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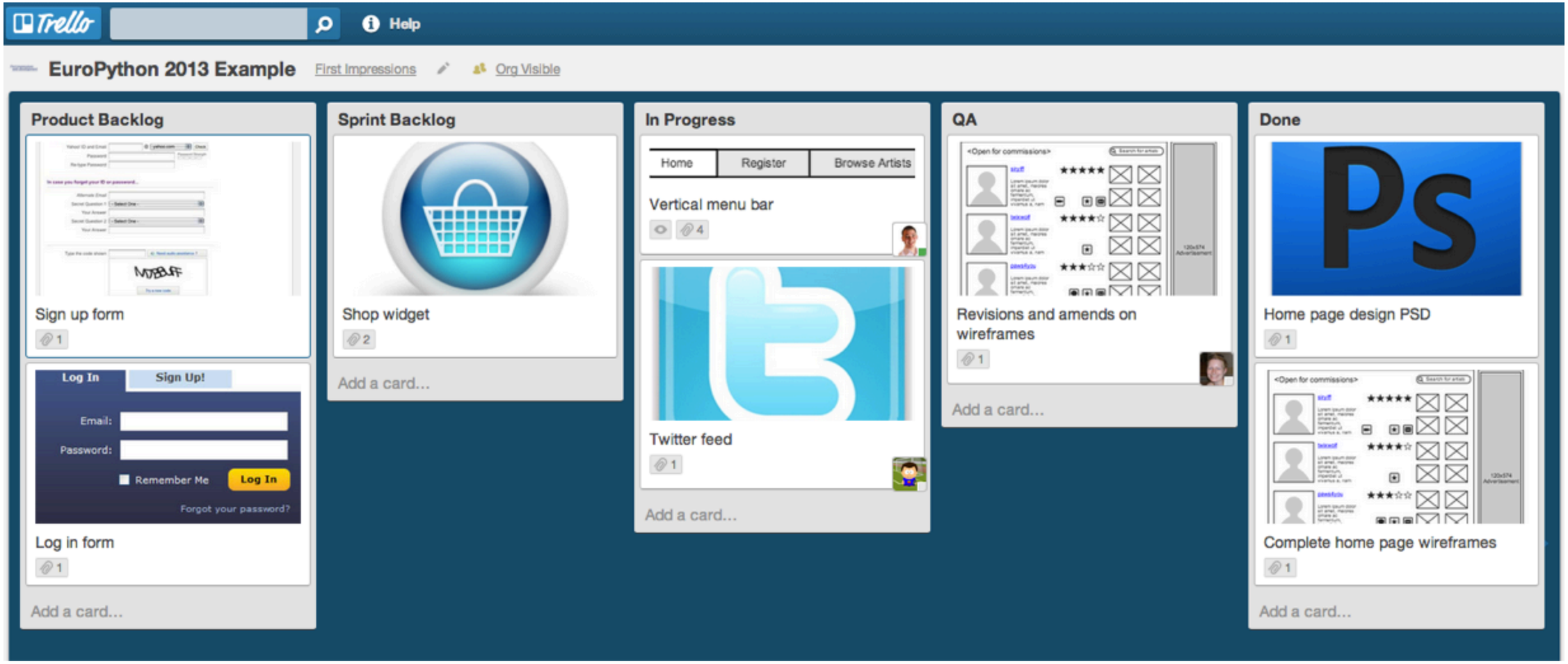
The Scrum Board



http://www.trello.com

Daily Standup

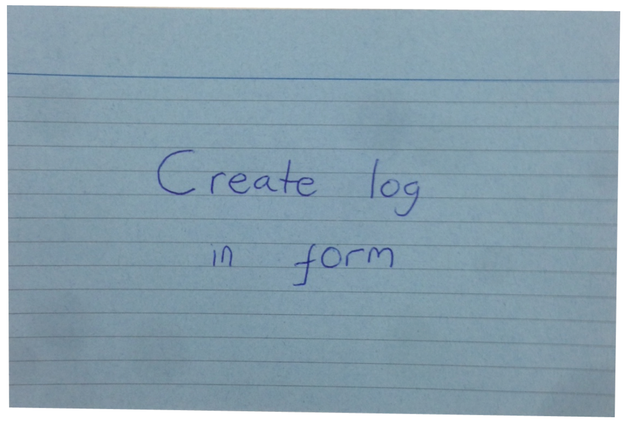
DAILY FEEDBACK - COLLABORATIVE

An Agile Month

August 2013

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2	3
Sprint 1	4	5	6	7	8	9	10
		Planning Game					
	11	12	13	14	15	16	17
				Showcase	Release	Retrospective	
Sprint 2	18	19	20	21	22	23	24
		Planning Game					
	25	26	27	28	29	30	31
				Showcase	Release	Retrospective	
			Notes:				

Planning Games



Argument ensues...

ACCURATE EFFORT APPROXIMATION

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13

Developing within an Agile team

- Development starts with a ‘Defuzz’
- Test Driven Development
- Pair Programming (XP)

Testing within an agile team

Test driven development

Nose and **unittest**

Nose extends unittest : a unit testing framework in the Python standard library

Behaviour driven development

Freshen

Cucumber clone for Python

Also see our EuroPython 2012 presentation *"BDD testing in Agile Development at BSkyB"*

Deployment scripting

Paver

Build & deployment scripting tool

RELIABILITY - QUALITY - AUTOMATION

Showcases

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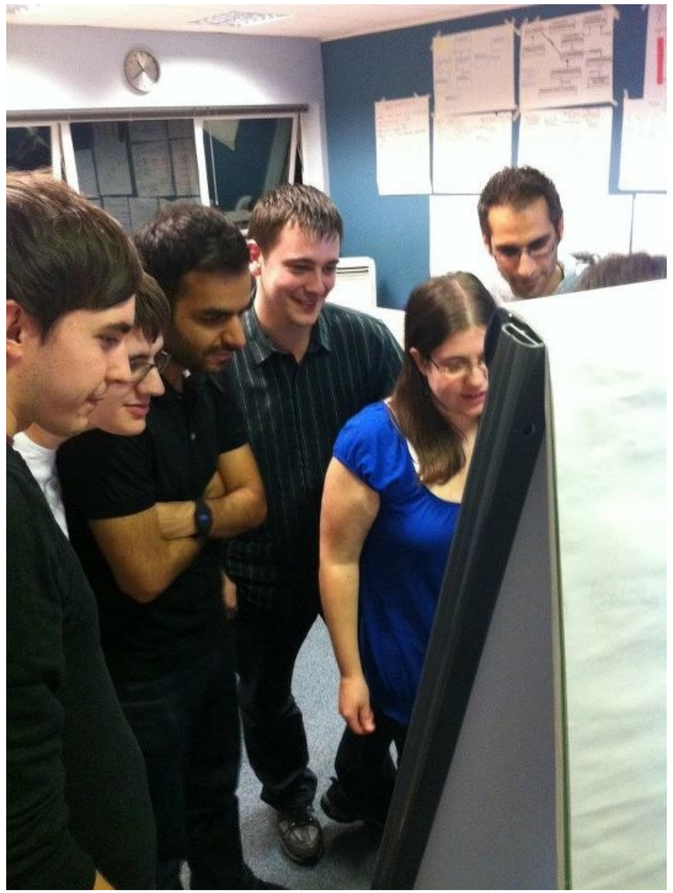
Retrospectives



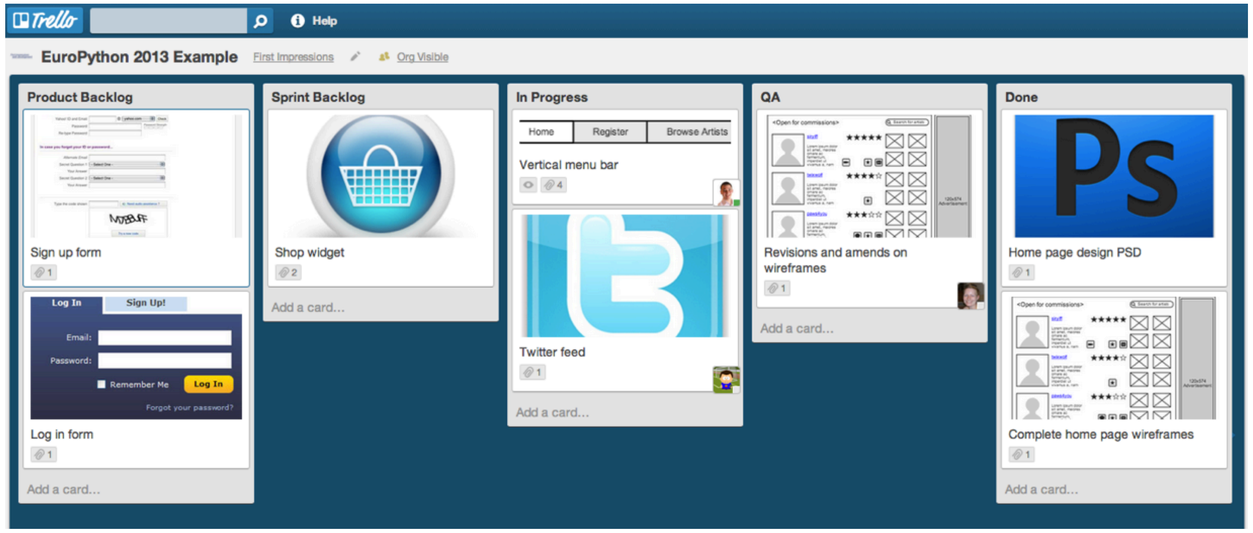
REVIEW - IMPROVE

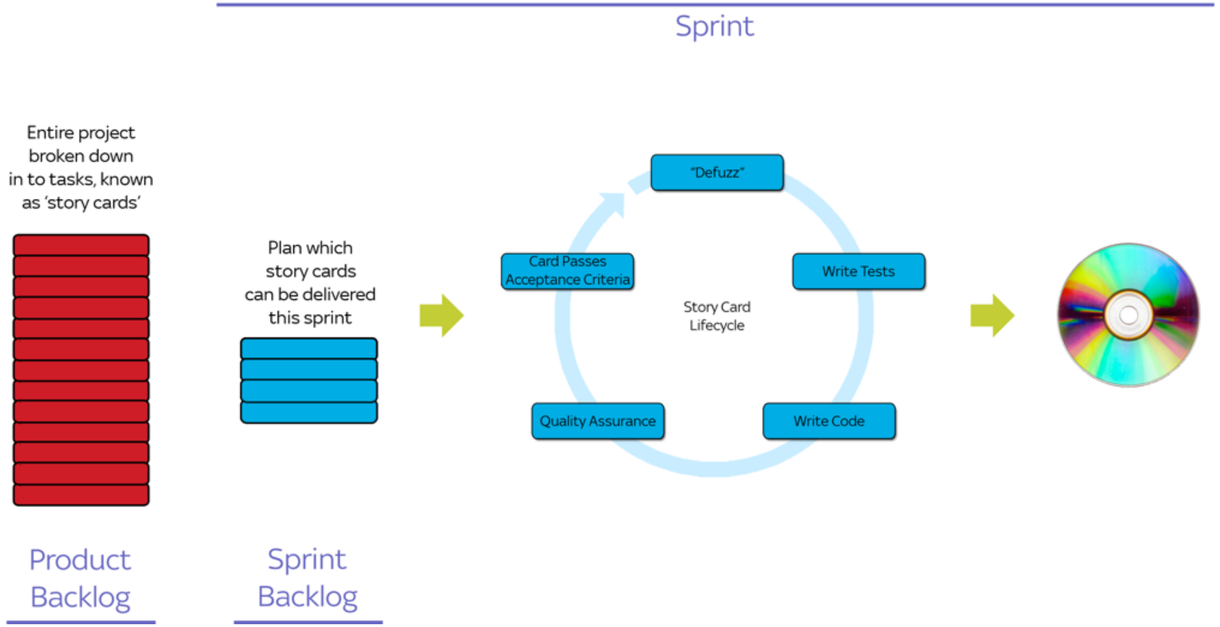
DEMO

DEMO

Become more Agile today!

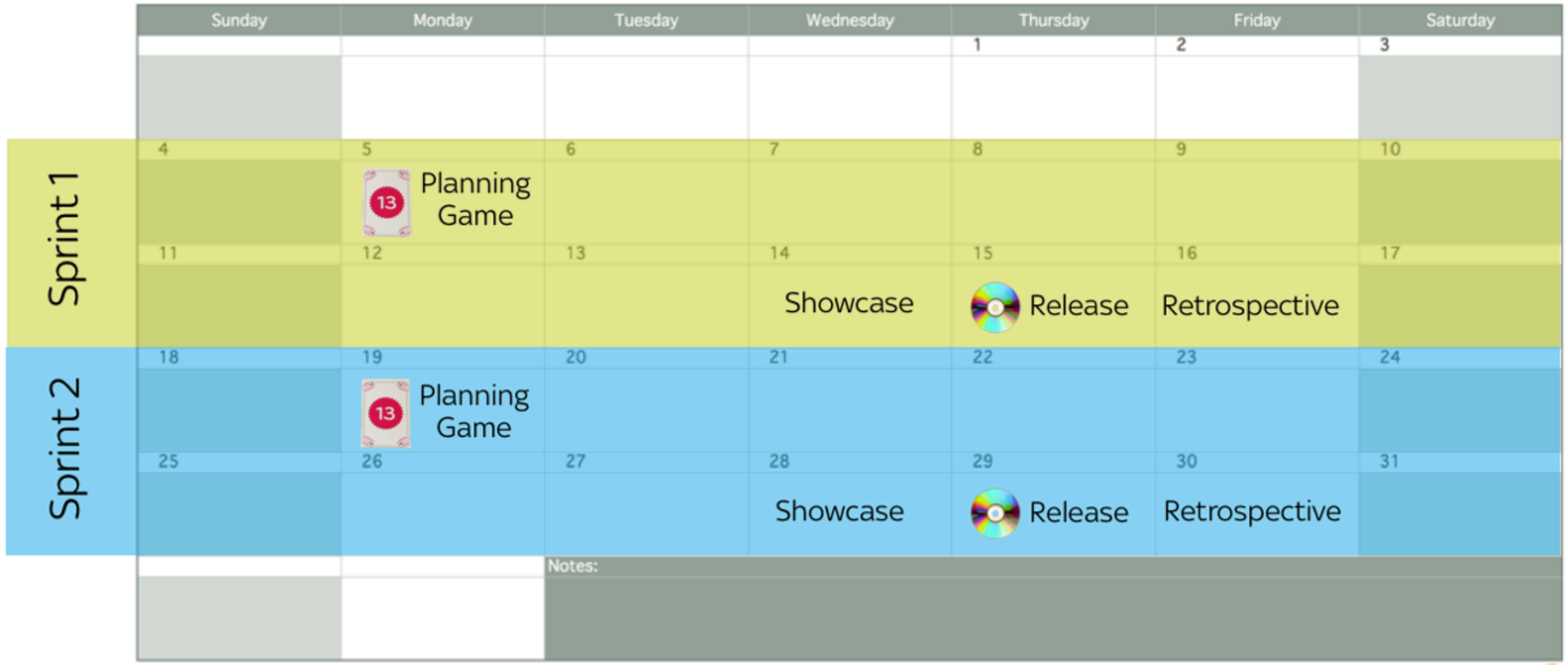
Set up an online scrum board





Break down your workload in to tasks

And adopt an Agile Lifecycle...



Release often
Receive frequent feedback
React to feedback quickly and efficiently
... Leading to quality software, happier clients and a happier development team!

Q & A

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