

What's it like to work in an agile development team?

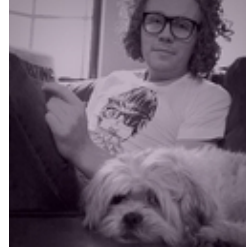


Sam Wessel & Neil Kilbride

Who are we?



Sam Wessel
@samwessel



Neil Kilbride
@neilkilbride

Who are esendex.® ?


 **esendex.**
every message matters

0845 356 5758 [Login](#) or [Take a FREE trial](#)

Contact | Developers | Support

- Home
- Why SMS?
- Why Esendex?
- Services
- Pricing
- Customers
- About us



 Call me back

[Take a free trial](#)

Full name

Company name

Telephone number

Business email address

I agree with the terms & conditions

[Start sending now](#)

Our customers



What our customers say about us



Feefo is a trusted independent customer feedback forum. [Read the reviews](#)

Our SMS services

- Web SMS**
Powerful solution to send and receive SMS online in seconds.
[Read more](#)
- Email SMS**
Simple to use and integrates easily with any email system.
[Read more](#)
- SMS API**
Straightforward, hassle free integration for developers.
[Read more](#)
- SMS Short Codes**
SMS Short Codes are memorable five digit SMS text numbers.
[Read more](#)



80806

Latest news

- The 5 most famous text messages in history**
Text messages have become an integral part of mobile - [read more](#)
2011-11-15 09:30:26
- esendex: Mobile phones are improving healthcare worldwide -** [L.co/BllMXTpI #mobilephones #healthcare](#)
2011-11-14 17:02:12
- Virtual Mobile Numbers vs. SMS Short Codes**
There is a clear difference between the two numbers and - [read more](#)
2011-11-14 13:09:51
- esendex: 10 days into @movemberUK, how are we looking?** [L.co/OA4xO17s please donate here L.co/ozQ8ZJXO #lashlag](#)
2011-11-10 15:31:29
- ★★★★★ Professional, courteous, and when their help desk says that -** [read more](#)
2011-10-06 14:39:50
- ★★★★★ Extremely helpful. Great customer service.**

UK's leading specialist business SMS provider

Who are esendex. ?

- Offices in Nottingham, Barcelona & Melbourne
- Almost 50 staff globally
- 200,000,000 message processed each year
- 6-700,000 messages processed each day
- 99% of messages processed within 5 seconds

The Esendex development team

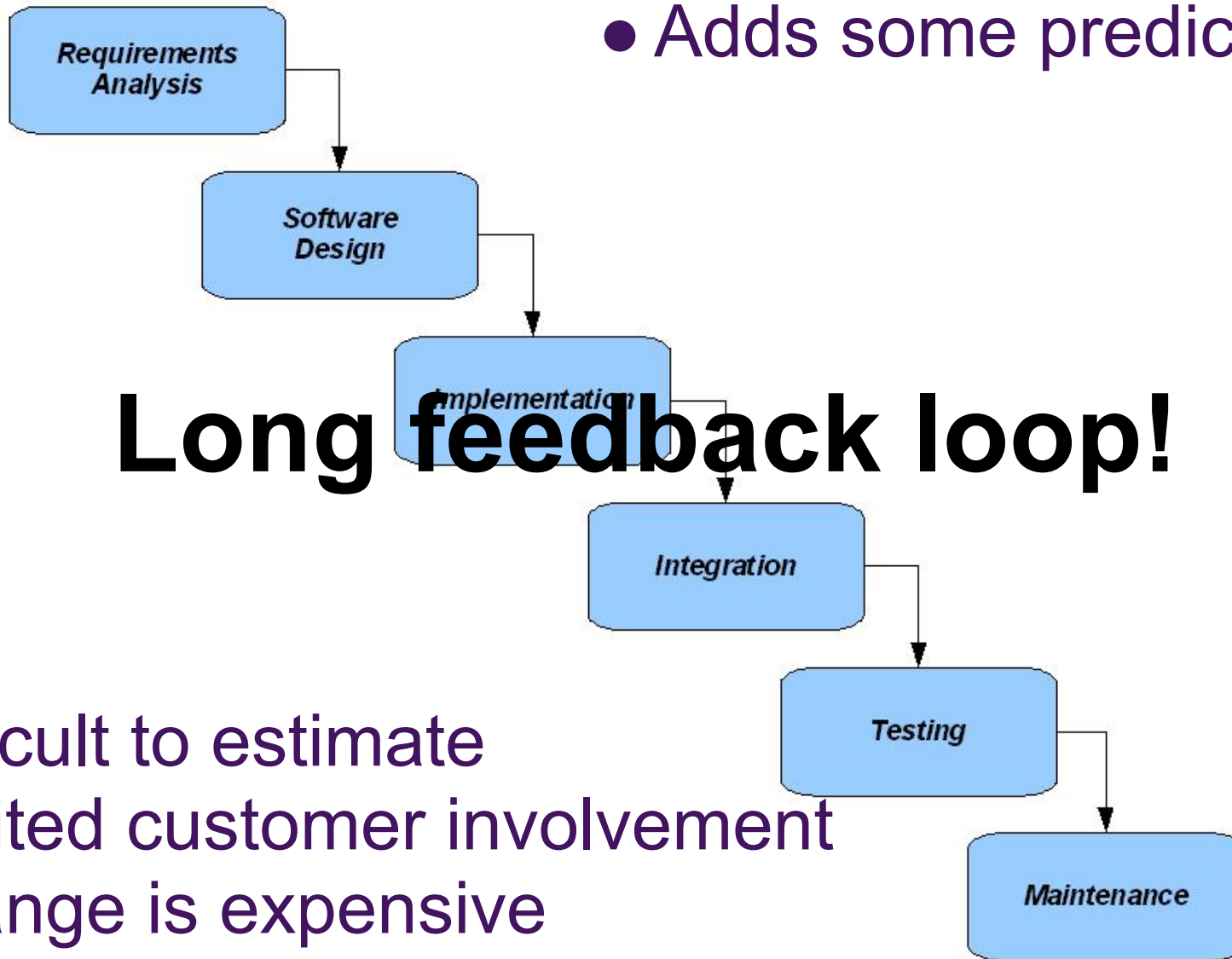


- Agile team of 8 developers
- We use the latest technologies to deliver first class messaging APIs and web applications

What is agile?

- Before agile...
- "Code & fix"
- Unpredictable
- Industry response: apply engineering principles

Waterfall



- Adds some predictability

- Difficult to estimate
- Limited customer involvement
- Change is expensive

A worrying statistic...

Only 32% of IT projects are "delivered on budget, on time, and with expected functionality."

Standish Report, 2009



G52GRP Suggested Timeline

Time Line, Autumn 2011 (1)

- **Er** Time Line, Autumn 2011 (2)

- **Nov** Time Line, Spring 2012

- **February:** Main implementation effort; start writing up.
 - **March:** Integration; testing and debugging; continue writing.
 - **Late March:** Fine-tune implementation; finish reports; prepare Open Day and Presentations.
 - **30 March:** Final reports and software due
 - **2 April–27 April:** Easter break
 - **9 May:** Open Day

Agile Manifesto

Manifesto for Agile Software Development

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.

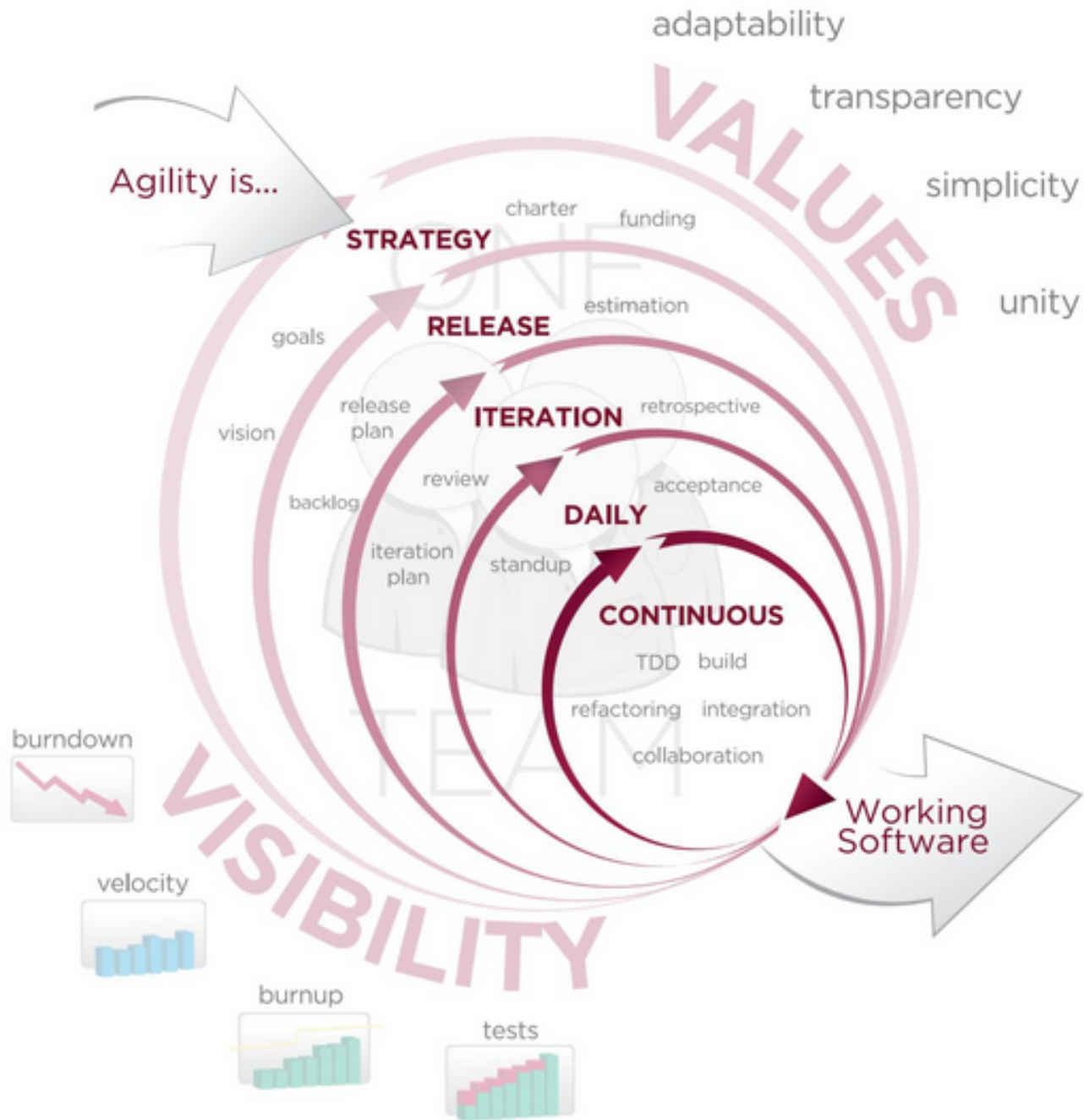
Kent Beck	James Grenning	Robert C. Martin
Mike Beedle	Jim Highsmith	Steve Mellor
Arie van Bennekum	Andrew Hunt	Ken Schwaber
Alistair Cockburn	Ron Jeffries	Jeff Sutherland
Ward Cunningham	Jon Kern	Dave Thomas
Martin Fowler	Brian Marick	

<http://agilemanifesto.org/>

Agile

"**Agile software development** is a group of software development methodologies based on **iterative and incremental** development, where requirements and solutions evolve through **collaboration** between **self-organizing, cross-functional teams**. It promotes adaptive planning, evolutionary development and delivery, a time-boxed iterative approach, and encourages **rapid and flexible response to change**"

Agile



So what about the group project?

- Closest university-taught experience to working in a real software development team
- Assess requirements
- Organise team members' responsibilities
- Work together
- Deliver a *working piece* of software *on time*

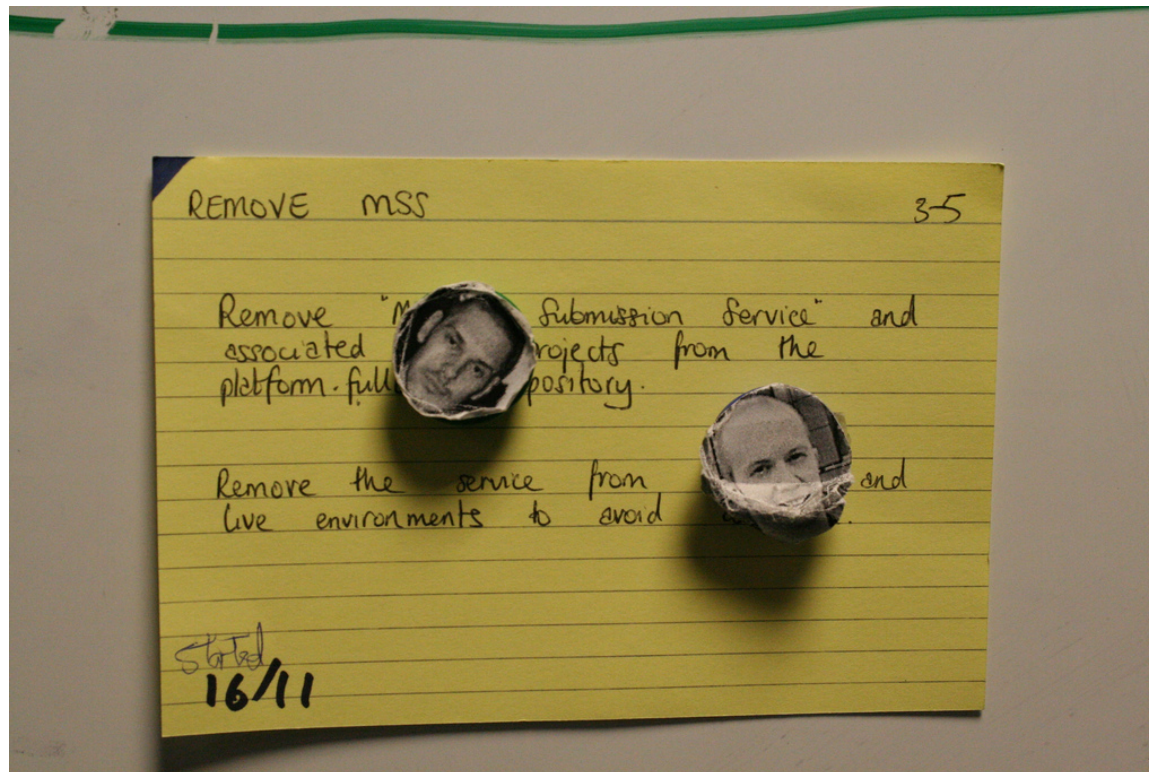


Project organisation

- Project planning
- Kanban
- Stand-up meetings
- Retrospectives

Project planning

- 2 week iterations
- Break problems into small, deliverable, estimable pieces
- Define acceptance criteria for each piece of work



Planning Poker



Planning Poker



Kanban 看板

- Lean manufacturing concept created by Toyota, meaning "sign board"
- Make progress visible & identify bottleneck
- Low tech!



Kanban 看板

Your own simplified version?



Typically story cards will go from TODO to LIVE in 2 days or less!

Stand-up meetings



- < 5 minutes
- Keep team members informed & raise blocking issues
- Focus & sense of team
- Would a bi-weekly, stand-up type meetup help you?

Retrospectives

#7

19/10

02/11

16/11

30/11

ACTIONS 01/11
Review + Dialogue
About C.R.F. - ALL

What went well?

What could have gone better?

BRAND NEW DAVID

RDS IMPROVE-ACHTS!

INCREASE IN SALESFORCE CASES

OPS LIBS WAY OUT OF BITZ

Lack of Monitoring on Prod. Build/HD

Velocity not So Good

Plus Increase STAFF UPTIME

Plus Increase work time

WILL BY KENNETH TALKING

BREACH OF "IN PROGRESS" LIMIT BY SOME DICK

Change to JSON Library

JSON Library Change

side some to change

105

200

150

120

100

80

60

40

20

0

6

7

8

9

esendex.

Stand-Up Checklist v1

CHRISTMAS HOLIDAYS

- End of every iteration
- Inspect & adapt
- Set actions to improve



Software development

- Pair-programming
- Source control
- Test-driven development
- Continuous integration

Pair-programming



Pair-programming

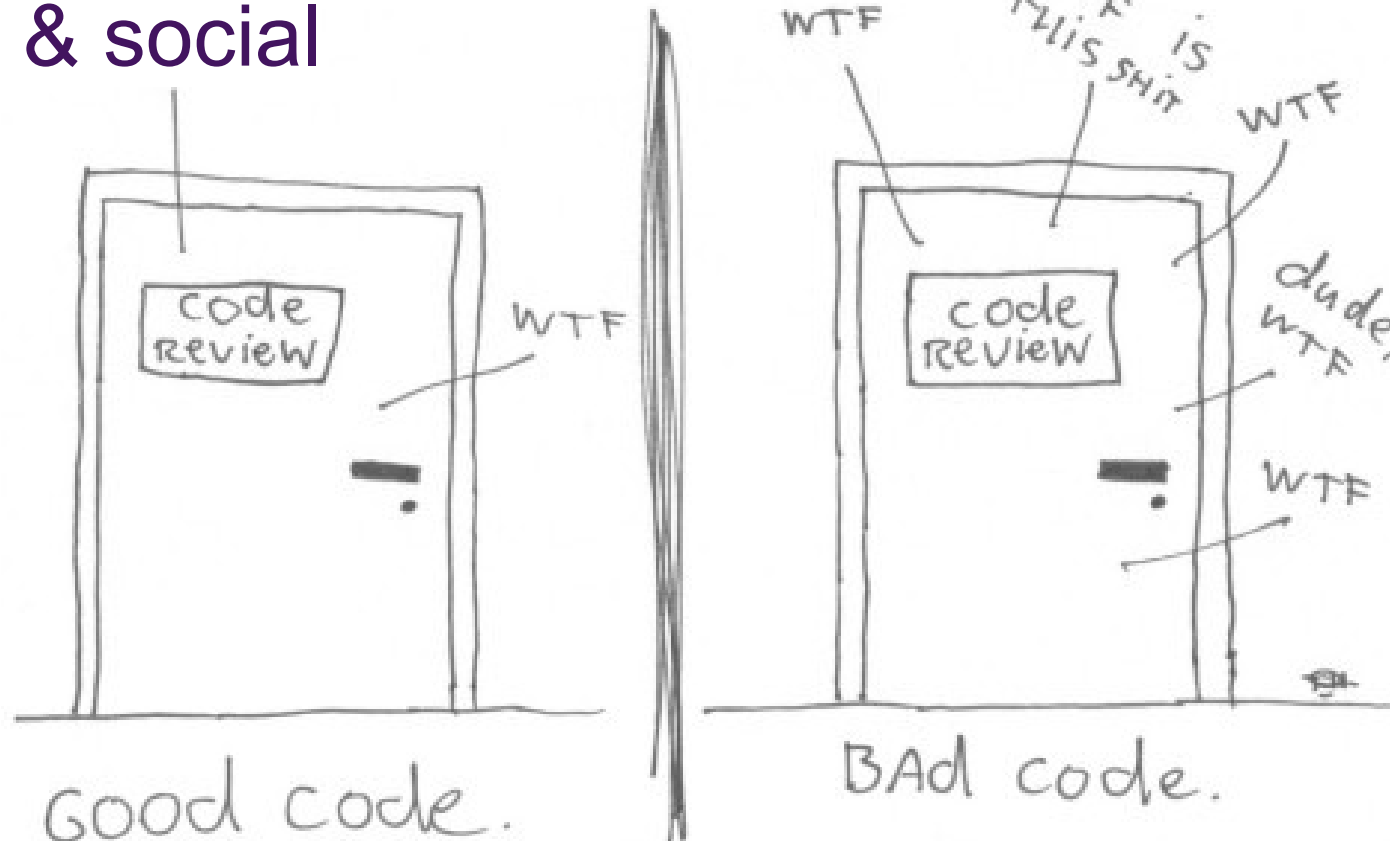
The ONLY valid MEASUREMENT

● Improve code quality city: WTFs/minute

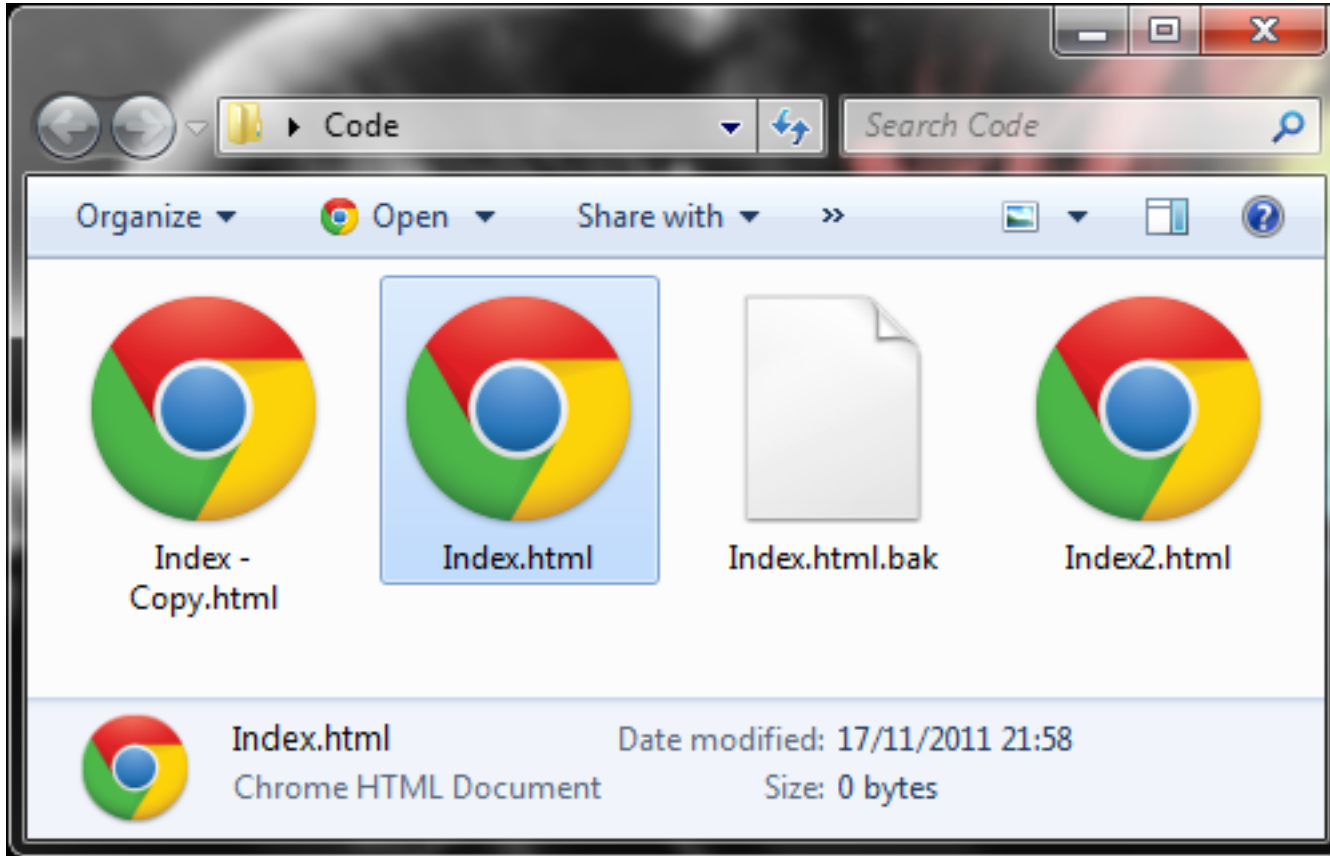
● Share knowledge

● Maintain focus

● Fun & social



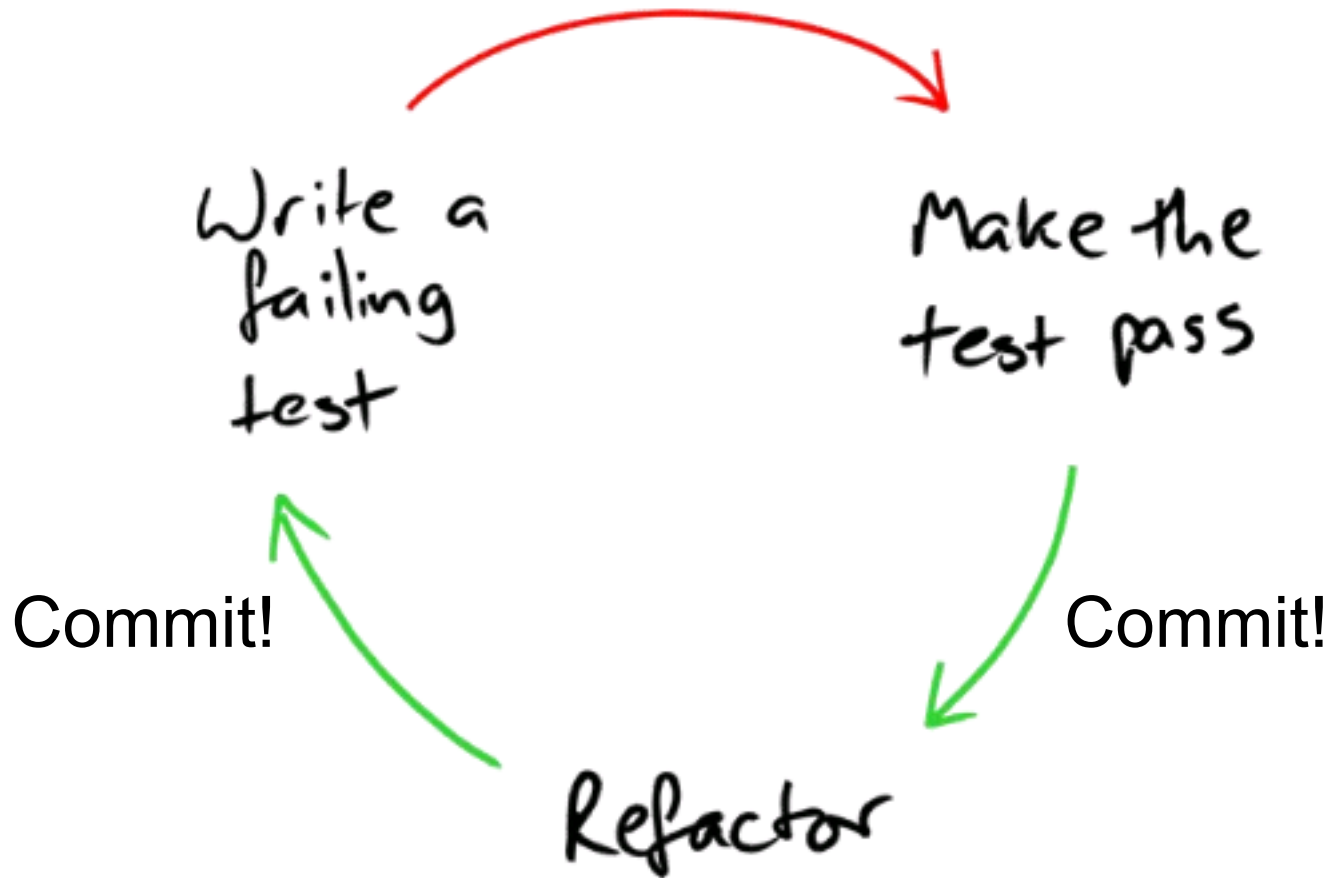
Source control



Source control

- Save incremental changes to your work
- Enables distributed working
- Safety
- You're crazy if you don't use it
- Top tip: commit regularly

Test-driven development



Nat Pryce

Test-driven development

- Provides code confidence
- Easy to isolate bugs
- Writing good tests forces you to write good code
- Tests are living documentation
- Time spent debugging is time wasted

Continuous integration

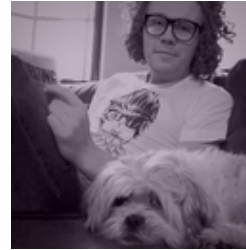
- Automate the build
- Make the build self-testing
- Instant feedback
- History of successful / unsuccessful builds
- Everyone can see what's happening
- Continuous deployment

Live demo

Do you want to know more?



Sam Wessel
@samwessel



Neil Kilbride
@neilkilbride

GeekUp Nottingham takes place on the first Monday of every month. It's a grass-roots knowledge sharing and networking social for folks involved or interested in all forms of technology and creative media.

- **18:30 Monday December 5th @ Cape (city centre)**