



AGILE WEB DEV

Code 301

WE NEED
THREE MORE
PROGRAM-
MERS.

USE
AGILE
PROGRAM-
MING
METHODS.



AGILE PROGRAMMING
DOESN'T JUST MEAN
DOING MORE WORK
WITH FEWER PEOPLE.

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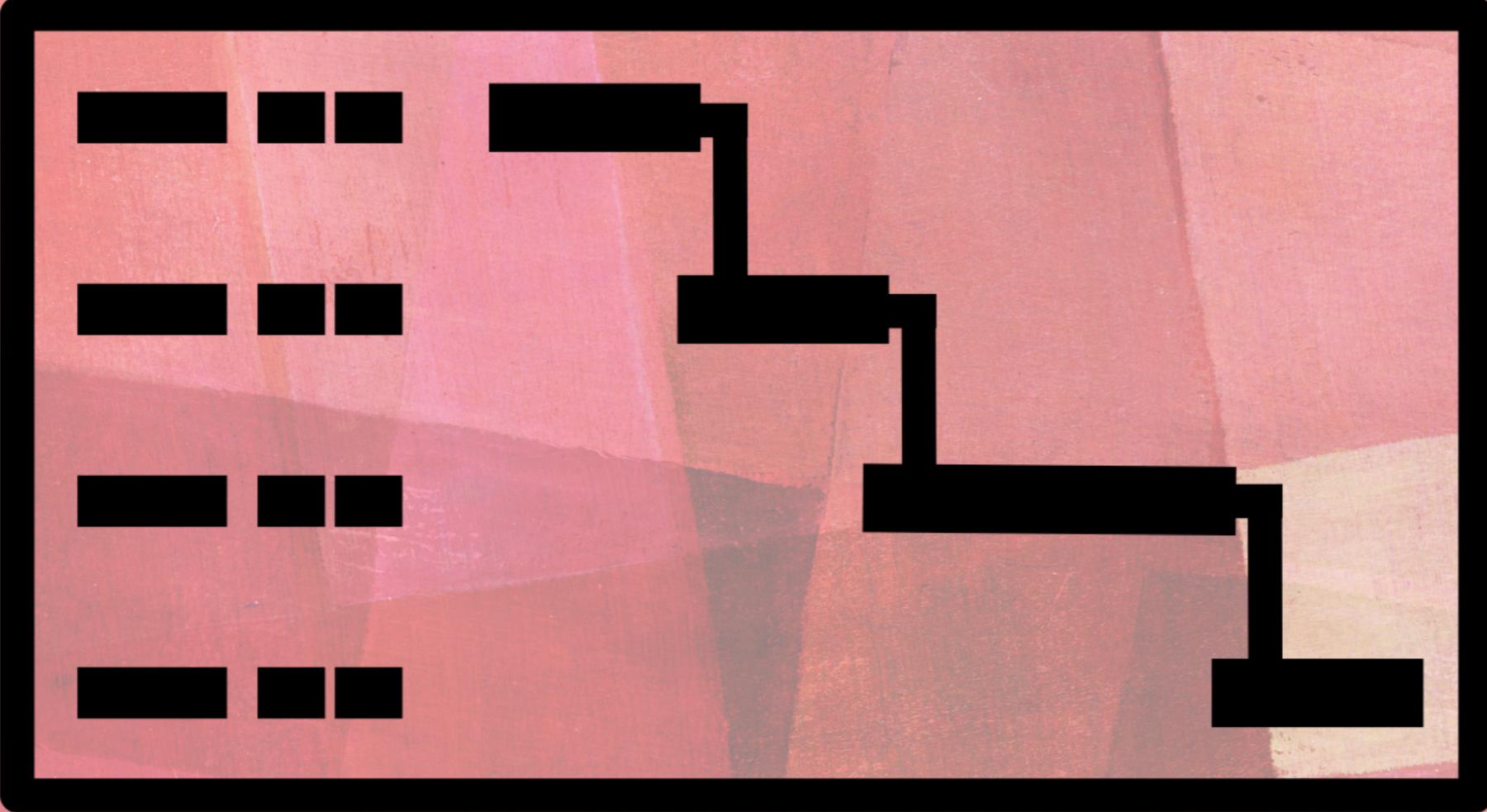
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FIND ME SOME
WORDS THAT DO
MEAN THAT AND
ASK AGAIN.



AGILE WEB DEVELOPMENT

What is it?



WATERFALL PROCESS

The “Dark Ages” of software development

A LIGHT IN THE DARKNESS

- While corporations plodded along with Waterfall...
- New “lightweight” methodologies were explored:
 - Extreme Programming
 - SCRUM
 - DSDM
 - Adaptive Software Development
 - Crystal
 - Feature-Driven Development
 - Pragmatic Programming,

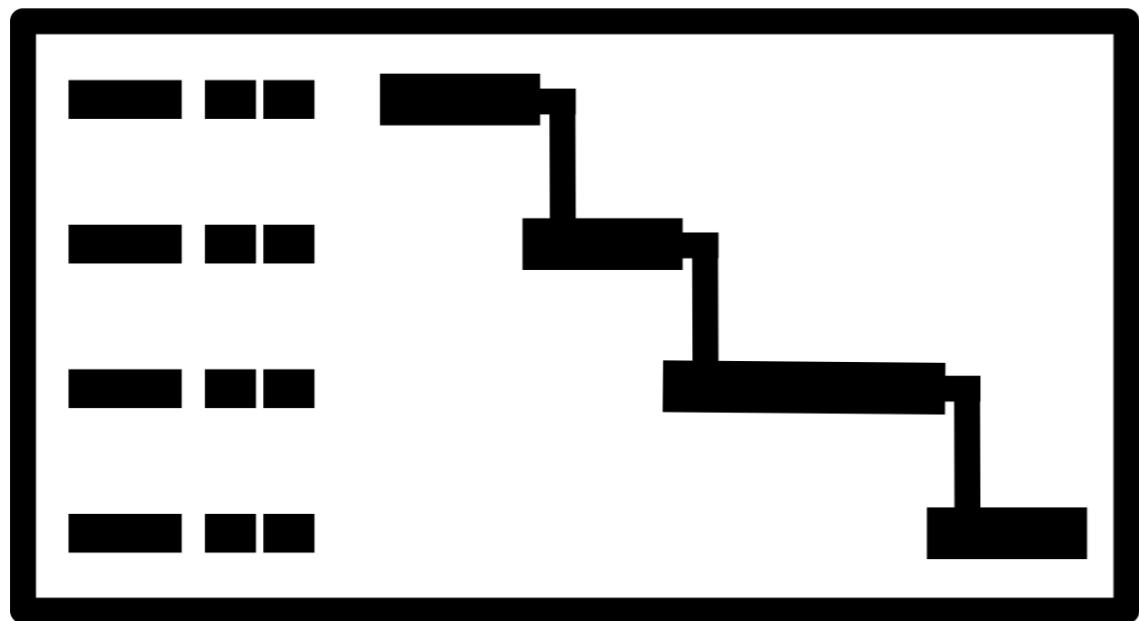
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We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

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

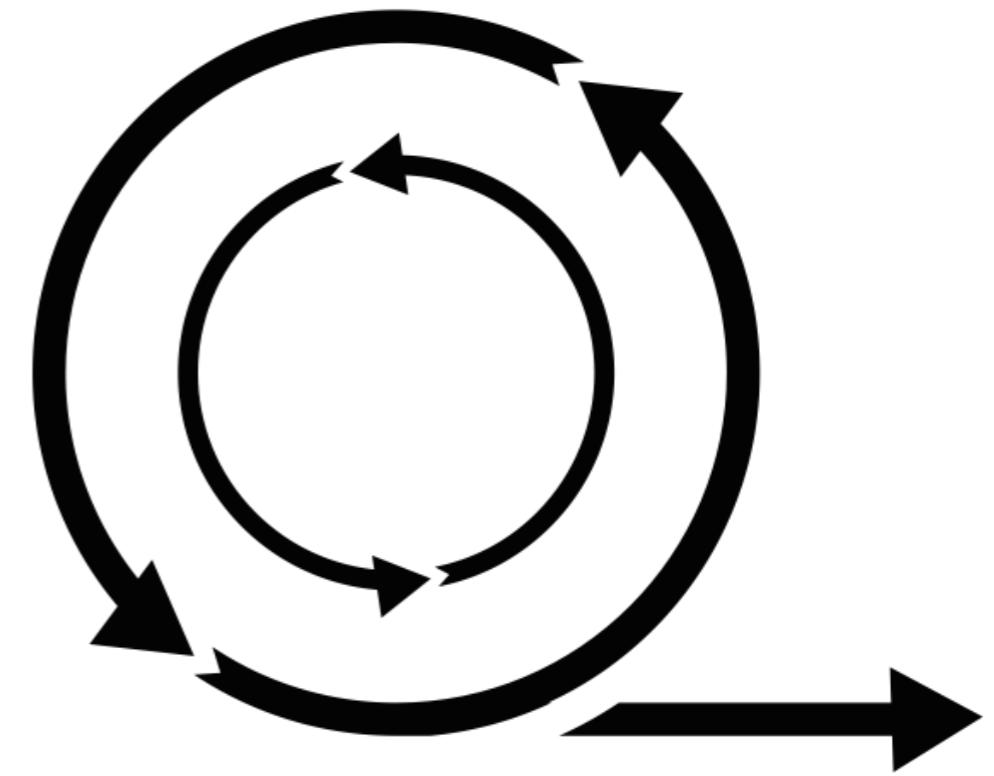
That is, while there is value in the items on the right, we value the items on the left more.

— *agilemanifesto.org*



WATERFALL PROCESS

VS



AGILE DEVELOPMENT

AGILE WEB DEVELOPMENT

- Most of what you see and touch of the modern web is produced with some flavor of Agile methodologies
- Our flavor will include:
 - Pair Programming
 - Standup Meetings
 - User Stories grouped into daily Sprints
- More Agile terminology, explained visually:
 - <https://www.youtube.com/watch?v=OJflDE6OaSc>
 - <https://www.youtube.com/watch?v=XU0llRltyFM>

AGILE WEB DEVELOPMENT: PAIR PROGRAMMING

- Pair Programming:
 - Driver:
 - hands on the keyboard
 - makes commits to the repo
 - Navigator:
 - verbalizes process
 - researches questions
 - guides driver in where to go
 - Switch off!

AGILE WEB DEVELOPMENT: STANDUP

- In a Standup Meeting, each person answers 3 questions:
 - What did you do yesterday?
 - What is your plan for today?
 - What's blocking you?
(Don't solve problems, just state where you are stuck)

AGILE WEB DEVELOPMENT: STANDUP

- Examples:
 - Yesterday, I added a resume upload feature. Today, I plan to add a quick-preview feature. I'm blocked until the PDF parsing engine is complete.
 - Yesterday, I setup a basic blog index page. Today, I'll add some event handling. No blockers.
 - Y: I modified the search feature to sort by last name.
T: I'll include phone number in the display.
B: I'm unsure how to handle accounts with no phone number.

AGILE WEB DEVELOPMENT: USER STORIES

- All User Stories must follow a template:
 - As a _____ [who]
 - I want _____ [what]
 - so that _____ [why]

AGILE WEB DEVELOPMENT: USER STORIES



AGILE WEB DEVELOPMENT: USER STORIES

- A good User Story is:
 - Independent
 - Estimable
 - Small (1-2 hours is our guide)
- User Stories solve real problems:
 - “What do I work on next?”
 - “How do I get started?”
 - “How do I know when this feature is done?”

AGILE WEB DEVELOPMENT: USER STORIES

- Examples:
 - As a customer, I want the restaurant address displayed prominently on the home page, so that I can quickly find it if I look it up on my phone while driving.
 - As a Teller, I want to look up clients by last name, so that I can find them in the system faster.
 - As a player, I want to toggle help/instructions during play, so that _____.
 - As a hiring manager, I want to give resumes 1-3 stars, so that _____.

AGILE WEB DEVELOPMENT: USER STORIES

- Your user stories for today:
 - As a developer, I want my site to use valid and semantic markup, so that employers will love me.
 - As a reader, I want the blog to show most recent articles on top so that I can easily read the latest.
 - As a reader, I want relative timestamps to give me a idea of how many days ago something was written.
 - As an author, I want my name linked to my social feed, so that readers can follow me, and I can build my audience.
 - As a reader, I want the site to look reasonable, so that I can read it on any device.

AGILE WEB DEVELOPMENT: SUMMARY

- We'll leverage a few key pieces of Agile in Code 301:
 - Pairing
 - Standup Meetings
 - User Stories

AGILE WEB DEVELOPMENT: RESOURCES

- Check out these videos:
 - <https://www.youtube.com/watch?v=OJflDE6OaSc>
 - <https://www.youtube.com/watch?v=XU0llRltyFM>
- Read more how the movement started:
 - <http://agilemanifesto.org/>