AGILE EXPERIENCE DESIGN

A Digital Designer's Guide to Agile, Lean, and Continuous

Lindsay Ratcliffe Marc McNeill

AGILE EXPERIENCE DESIGN

A Digital Designer's Guide to Agile, Lean, and Continuous

> Lindsay Ratcliffe Marc McNeill



Agile Experience Design

A Digital Designer's Guide to Agile, Lean, and Continuous

Lindsay Ratcliffe and Marc McNeill

New Riders 1249 Eighth Street Berkeley, CA 94710 510.524.2178 510.524.2221 fax

Find us on the Web at: www.newriders.com
To report errors, please send a note to: errata@peachpit.com
New Riders is an imprint of Peachpit, a division of Pearson Education.
Copyright © 2012 by Lindsay Ratcliffe and Marc McNeill

Acquisitions Editor: Michael Nolan Project Editor: Rebecca Gulick

Development Editor: Margaret S. Anderson

Copy Editor: Gretchen Dykstra

Production Coordinator: Myrna Vladic

Interior Designer and Compositor: Danielle Foster

Cover Designer: Aren Howell Straiger Cover Production: Jaime Brenner Proofreader: Patricia Pane Indexer: Valerie Haynes Perry

Notice Of Rights

All rights reserved. No part of this book may be reproduced or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher. For information on getting permission for reprints and excerpts, contact permissions@peachpit.com.

Notice Of Liability

The information in this book is distributed on an "As Is" basis, without warranty. While every precaution has been taken in the preparation of the book, neither the authors nor Peachpit shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the instructions contained in this book or by the computer software and hardware products described in it.

Trademarks

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book, and Peachpit was aware of a trademark claim, the designations appear as requested by the owner of the trademark. All other product names and services identified throughout this book are used in editorial fashion only and for the benefit of such companies with no intention of infringement of the trademark. No such use, or the use of any trade name, is intended to convey endorsement or other affiliation with this book.

ISBN-13: 978-0-321-80481-5 ISBN-10: 0-321-80481-3

987654321

Printed and bound in the United States of America

ACKNOWLEDGEMENTS

We are extremely grateful to everyone who has contributed to this book. In particular, we would like to thank the people who have created and contributed original content in the form of both words and pictures. We are also grateful to everyone who has kindly given us permission to include their thoughts, work, products, or mug shots in this book, and also to those who have given us feedback throughout the process. A big thanks to the team at Peachpit who have supported us throughout this intense process and helped make this book what it is!

Lindsay would like to give special thanks to my hubby, Guy Ratcliffe, without whom nothing would be possible. Your love, support, and constant encouragement have made my dreams come true. To my 'little man' who melts my heart even on stressy days. To my Dad, who kept the faith and always believed in me. The thought of your smile still warms my heart, and I'll miss you always. To my Mum whose strength, perseverance, and determination continue to inspire me. To my brother whose unfaltering pursuit of the good life leaves me in awe. To Marc McNeill, thanks for your inexhaustible energy and passion about all things XD. Thanks for sharing this journey—we make a great team! To Hubertus B and StakenKidney, you are my mentors and muses eternal. To the PufaSistas, the other half of BitchnCharmer, I am eternally grateful for what was, what is, and what always will be. To Andrew, Sarah & Shane, you were there, where it all began, and continue to influence and inspire me. To Claire and my other 'Witches of EastTwick(enham),' you are all amazing and your support and friendship are invaluable. A big shout out to all my good friends and colleagues at ThoughtWorks who have inspired my fresh perspective on design, customer experience, and technology, and supported both of us through this process.

Marc gives a big thank you to Graham Donaghue for giving me the nudge to write this book and to Luke Barrett for his inspiration and support. Thanks to all the ThoughtWorkers, both past and present, who have patiently listened to me rant about the *real* customer whilst I've waved my hands in front of the whiteboard. They've taken me on a journey of agile discovery, from thinking a class was something I went to school in, to having a humble appreciation for the noble art of software delivery. Of this merry bunch, thanks in particular to Alex McNeill, Dan North, Luca Grulla, JM Domaingue, Prashant Gandhi, Jeff Patton, and my fellow experience designers Eewei Chen, Darius Kumar, and Diana Adorno. Thanks to my co-author Lindsay, who agreed to come on this journey and took it to the next level. And finally thanks to my wife, Lindsey, for the patience and understanding she's given me as I've written.

IN A WORLD **FNRICHED BY ABUNDANCE** BUT DISRUPTED BY THE **AUTOMATION** AND OUTSOURCING OF WHITE-COLLAR WORK. EVERYONE. REGARDLESS OF PROFFSSION. MUST CULTIVATE AN ARTISTIC SENSIBILITY... TODAY WE MUST ALL BE DESIGNERS.

—Daniel Pink,

A Whole New Mind

FOREWORD

As it enters its second decade, the agile movement must continue to innovate and adapt to remain relevant. This book by Lindsay Ratcliffe and Marc McNeill continues a string of agile innovations and adaptations. It brings design back into the software delivery equation. "But, but," agilists might say, "we always do design." But Ratcliffe and McNeill are not talking about module design or database design; they're talking about product design, graphic design, experience design, and more. This level of design is one of those things that is "hard to define, but I'll know it when I see it." As the authors say, great design marries a desirable product with an engaging experience, a combination found in Apple's iPhone and iPad, for example.

The early agile movement was a reaction to the problems of waterfall development: splintering of roles, piles of documentation, and little collaboration. The remedies to the problems of waterfall included working in short iterations, reducing the proliferation of roles, slashing documentation, and fostering intense collaboration. But, as it turns out, specialisation wasn't the primary problem—collaboration was. As the agile movement has matured, we've added back specialists as we've learned to integrate them into agile teams. That's not to say that having a more general set of skills isn't very valuable, but in our complex world there is still a need for expertise in certain areas.

Another trend over the last decade has been to show how, in a variety of ways, the statement "agile won't work for or with xyz" is false. Issues with large projects, distributed teams, database-centric products, legacy systems integration, non-greenfield development, specific technologies, and practices like user-interface and experience design have all been addressed by innovative agilists.

Agile Experience Design: A Digital Designer's Guide to Agile, Lean, and Continuous continues these trends by showing how experience design can be integrated into agile products and how designers can be integrated into agile teams. The book delves into the many facets of design and how they can be incorporated to create an engaging experience for customers, and brings the critical issues of design to designers and non-designers alike.

Because, to repeat Daniel Pink, "today we must all be designers."

Jim Highsmith

Executive Consultant and author of the Agile Manifesto and Agile Project Management

PRFFACE

WHY READ THIS BOOK?

This is the book we wish we'd had when we were first introduced to agile methods. We want to show how design and agile are a natural fit together. How bringing together the people who build the products you design with the people who use the products you design will lead to better decisions and better customer experiences. We want to make the experience of designing in an agile environment easier and more compelling. How you no longer need to do all your work 'up front' but work collaboratively and continuously, adapting to the changes that are inevitable in the lifetime of a digital project.

WHO ARE YOU?

This book is primarily aimed at experience designers (and related roles) who work in an agile environment. It's for people who are striving to create excellent, customer-centric products and services yet want to be more adaptive, efficient, and collaborative. It doesn't matter if, like us, you have a long tenure as an experience designer and are just coming to agile for the first time, or if you're just starting out as an experience designer.

You'll also benefit from reading this book if you're a *project manager, product* owner, developer, tester, or business analyst working with experience designers in an agile environment. You'll understand more about what experience designers do, what they need, how to get the most out of them, where they fit into the process, and how to collaborate with them.

WHAT TO EXPECT

We're not reinventing the wheel. You won't necessarily find a whole bunch of new techniques. Instead, we've taken some best practises and used them to develop a framework and suggested approach for experience design in an agile context.

There are already plenty of books on agile methods—this isn't another one of those. Instead, we'll give a general overview of agile and then get specific on how to do experience design activities on an agile project. We'll look at the project life cycle and beyond, showing you how to apply experience design to an agile project.

We'll look at experience design as an essential component of a successful, agile, cross-functional project team where customer experience is critical to project or business success. We'll explain why roles are much less important than having the right skills on the project and explore how the different functional roles on a team can collaborate to create and deliver the project vision.

HOW TO USE THIS BOOK

Part One introduces agile—even if you think you know all there is to know about agile, it's still worth reading through to understand how and where experience design fits in.

Part Two is where we'll look at the project process and explore experience design techniques and activities in the context of the agile framework to help you deliver great experiences.

At the end of the book you'll find the Toolbox. Use this as a quick-reference guide to the tools and techniques and how you can adopt them in an agile environment. We hope to add to the toolbox over time on www.agileexperiencedesignbook.com. Let us know your favourite, tried and tested tools and we'll endeavour to share those too.

IT'S A SHARED UNDERSTANDING

Things change. That's a key message in this book. There are a variety of ways that we can keep each other informed of changes to the thinking about agile and experience design. We'll publish and post updates at www.agileexperiencedesignbook.com as and when they occur, but we'd love to hear your stories and thoughts, too.



Throughout the book you will also see the lightbulb icon to indicate a tip.



When we refer to a method, technique, or activity in the main part of the book that is described in the Toolbox, you will see the tools icon.

CONTENTS

PART ONE	LOOKING AT AGILE AND WHY DESIGNERS SHOULD CARE	
CHAPTER 1	REDESIGNING DESIGN	3
	Creative heroes and IT villains	4
	Don't shoot the messenger	.5
	Design in a vacuum	6
	Life and time has moved on	.7
	A manifesto for agile experience design	8
	Make it collaborative, iterative, and intense	0
	Make the vision real	L1
	Continuously develop the detail	_2
	Make the design responsive	.3
	What are we waiting for?	ـ4
CHAPTER 2	THE WATERFALL HAS DRIED UP	L5
	Current state	L6
	Agile deconstructed	23
	Agile experience design	34
	Redefining done	37
	In summary	0
	Coming next	0
CHAPTER 3	I'M A DESIGNER, WHY SHOULD I CARE?	11
	Is agile anti-design?	12
	A big design challenge	15
	Where design fits	8
	Who are designers?	6
	In summary	0
	Coming next6	0
CHAPTER 4	SETTING THE SCENE	31
	An agile experience design project	32
	Agile team structure and the role of the designer 6	8
	The agile project environment	77
	Agile project communication	31
	Agile project management	34

	In summary	90
	Coming next	90
PART TWO	HOW TO DESIGN COMPELLING EXPERIENCES AND DELIVER THEM—QUICKLY	
CHAPTER 5	GET READY TO GO	93
	Identifying the problem—and the solution	94
	How do we do it?	95
	The role of models in the process	99
	Who do we need?	102
	How are we going to structure our time?	108
	We're together, what now?	113
	In summary	114
	Coming next	114
CHAPTER 6	AGILE DISCOVERY	115
	Getting started	116
	Three i's of collaborative discovery	118
	Business Intentions	120
	Customer insights	124
	Implementation	136
	Bringing it all together	140
	In summary	142
	Coming next	142
CHAPTER 7	ENVISIONING SUCCESS	143
	Creating creative	145
	Make it happen	148
	Idea generation	154
	Refine	158
	Explore	159
	Validate	164

	Pivot	166
	In summary	168
	Coming next	168
CHAPTER 8	ELABORATION: READY, STEADY, BUILD	169
	The minimum viable product	170
	User stories	172
	Goals and journeys	179
	Estimation	192
	In summary	196
	Coming next	196
CHAPTER 9	INTO DEVELOPMENT	197
	Iterations: The heartbeat of delivery	198
	Working as a team	207
	Design documentation	211
	Working with the product owner	216
	Working in iterations	217
	In summary	230
	Coming next	230
CHAPTER 10	BEYOND AGILE TO CONTINUOUS	231
	What does launch look like?	233
	Beyond releases to continuous improvement	239
	Listen and measure	245
	Do the numbers add up?	262
	In summary	268
	Coming next	268
PART THREE	THE TOOLBOX	
	Affinity mapping	271
	Analytics	272
	As-is experience design review	273

As-is/to-be process mapping274
Camera as documentation275
Collaborative design
Competitor review
Context scenarios
Contextual inquiry
Customer experience/journey map
Customer testing
Design review meeting
Elevator pitch
Ethnographic research
Hot air balloon
Idea generation
Information design
Insights
Look inside
Me and my shadow
Personas
Product box
Prototyping
Retrospective
Showcase
Stand-up
Storyboarding
Story map
Task analysis
Trade-off sliders

INDEX 301

SETTING THE SCENE

"COMING TOGETHER IS A BEGINNING.
KEEPING TOGETHER IS PROGRESS." —HENRY FORD



Let's begin our journey into agile by understanding what makes agile different from other working methods and how all of this affects designers.

Success. Now there's an interesting word. By definition, success means the accomplishment of desired aims or goals. Achieving success is the holy grail of any business or project. The pursuit of success is the reason businesses invest time and money; it's the reason we take risks. This book is about design and we want to look not only at what makes design successful, but also how the involvement of designers on an agile project contributes to the overall project, and ultimately business success.

In this chapter, we'll take an initial look at agile project management, communication styles, rituals, processes, and environments and then talk about ways to improve the chances of both design and project success by integrating design and designers into the agile project framework.

AN AGILE EXPERIENCE DESIGN PROJECT

To get an idea of experience design on an agile project, let's think about what's needed to get us from the start to the finish. Creating a mental model for these activities makes them easier to understand and apply, so we've grouped them into the following five stages (4.1).

PROJECT ACTIVITIES NOT DEFINITIVE GATES

There are no hard and fast rules about where you should start or when you need to move on to the next set of activities. In fact, you might repeat some activities in each phase, iterating, testing, and building on previous learnings. Rather than being prescriptive about how long and when, we recommend a more lean and agile approach. Just do what you need to do and then move on. If you find you're missing information at any given point, you can simply iterate through the activities again and build on your initial findings.



Iterative activities grouped together with the agile project framework.

DISCOVER-ASK WHY

We look to gather customer, business, and technical insights that will provide us with the customer and business goals and identify opportunities for inspiration, improvement, and innovation. Often, you'll find stakeholders entering the process assuming they already know the answers to the *why* and *what* questions. Great if they do! Your objective is to get their thinking out on the table to be understood and agreed to by *all* the stakeholders. Equally, there may be some scenarios where nobody has really stopped to ask *why*. The idea sounds good on paper, but why should anybody care? Who are the customers and why might they use it? What do they *really* want and need? If we can't answer those questions, we're not ready to think about the *how*. There's no point in pulling together a plan if the fundamental proposition isn't going to fly.

Gather customer, business, and technical insights that provide insight into customer and business goals and identify opportunities for inspiration, improvement, and innovation.

ENVISION—ASK WHAT

Now that we've identified the customer and business goals, we can ask what we need to do to meet them. We don't want just one solution at the start. We're looking for a design vision, a direction for the product, with the full knowledge that this may change as the product evolves.

We place the customer at the heart of our design thinking to produce a multitude of ideas to create different opportunities.

We rapidly test these ideas with the people whose lives will be touched by the product we build for them. Those that are promising we'll elaborate on. Those that are duds we'll kill early and cheaply.

The key to our approach is not to spend months thinking. The market is moving on. The decision on how far to go will depend on the context and the maturity of the business. If you're a start-up, you don't have the luxury of testing ideas in a closed environment. You want to get stuff to market as soon as possible and adapt as you go. If you have an established product in an established market-place, you may wish to build a prototype to test your ideas before committing to costly development.

ELABORATE—ASK HOW

With a design vision in mind we now look to do just enough to start development. We elaborate on the vision and plan what we'll need to do to get a product into production as quickly as possible. We'll agree on a first cut of the project scope: what the desired customer journeys are, sketches to illustrate screens, and user stories that are estimated and prioritised.

DEVELOP-LET'S DO IT

Agile software development is a social activity. No longer does the designer throw artefacts over the fence in the hope that they may be delivered; in the agile process the designer is a member of the team. She works closely with the business analyst to clarify the stories just ahead of when the code is written. Indeed, sometimes the developers start coding *before* the design is done.

We think about the critical path and, as in lean manufacturing, produce our design inventory just in time.

Clearly, we can't always work in this way; we may need to iterate our ideas before coding starts. Alongside the development iterations we're spiking design options, working up different options to test and validate in a safe environment outside the main development effort. Testing is key. Usability testing is not a formal procedure done at the end of the project; it's baked in from the start.

EVOLVE—CONTINUE TO IMPROVE

Once your product is in the hands of your customers, you can really start *learning* how to make it better. Up to this point you only have a bunch of hypotheses about how good it *could* be and how it *should* work. The idea is that you release the first cut of your product and then continuously enhance it, learning what works and what doesn't, and evolve the product to make it ever better.

Unlike the past, when software was brittle and the cost of change meant you had to get it right the first time, today software really is *soft*. Focus on what is important to your business and to your customers and get something to market fast and early, even if it's just a pilot beta with a small, invited panel of trusted loyal customers, and let real behaviour and customer feedback inform your decisions.

IGNORANCE
IS THE SINGLE
GREATEST
IMPEDIMENT TO
THROUGHPUT.

—Dan North, Agile troublemaker, developer, originator of BDD

You then seek to continuously improve your product through a process of test and learn.

You can learn subjectively through usability tests, customer surveys, and the like, and objectively through analytics, split testing, and so on.

REMOVING UNCERTAINTY

Think of a time-boxed period where we do just enough to get the project started. Or changed. Or cancelled. We want to create models that we can test and validate at speed. We want to produce a design vision of where we want to go and elaborate on that vision to get us going.

When we start a project it looks something like this (4.2).

The line of uncertainty

4.2 The line of uncertainty.

There's a line of uncertainty. In fact, we can only really be sure of three things:

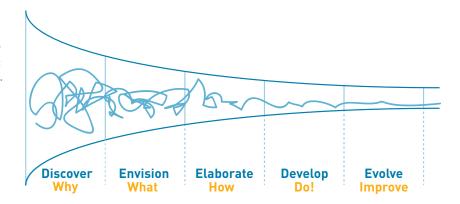
- Change is inevitable and things will go wrong.
- We can't know what will change and what will go wrong.
- When things go wrong or change is required, it will cause us pain and suffering.

Rather than being oblivious to these truths, producing a watertight vision that everyone believes will be delivered in its entirety, or trying to second-guess how things might change or what might go wrong, we should create an environment in which we can explore areas where we have the greatest uncertainty and try to mitigate the risks. Based on this principle we have two options:

- Do just enough that is good enough to provide us with a direction that we all agree is the right one based on the information available today.
- Be ready to kill the idea early or change, pivot, when the available information tells us this is the right thing to do.

When thinking about a project, we need to be mindful of those three questions—why, what, and how—before we do or evolve. So let's overlay those questions as a funnel on top of the line of uncertainty (4.3).

Using the model to reduce uncertainty through the product development life cycle.



Unlike the familiar approach to interface design, which can take a leisurely approach to *what* to build, and agile, which is quick to focus on doing the actual build, agile experience design brings together the best of these two approaches, providing a framework to remove uncertainty and do the right thing.

ACTIVITIES, NOT A PROCESS

We use this framework of discover, envision, elaborate, deliver, evolve to reduce uncertainty. Don't look at this as Gantt-chart-driven phases with deliverables due before the next phase can commence. These are activities to clarify thinking and product direction, not a prescriptive process. They may happen at the same time; you discover and envision new ideas as you develop. You may spend only a day in research, and a couple of days distilling your insights into a vision and elaborating requirements to start development. How you work will depend on the team and your environment. Take this framework as inspiration and adapt it to what works best for you, continuously improving as you evolve.

THE LAST RESPONSIBLE MOMENT

Whenever you start work on a project there are choices and options that you'll make on the way. Of course you want to make the right decisions. But the right decisions will be based on having the right information, and at the beginning of the project, it's unlikely this will be the case. It's easy to give yourself a false sense of security by basing your design work in detail on assumptions.

Here's an old joke: A man is driving in the countryside and is lost. He asks a farmer for directions and the farmer says, "If I were going there, I wouldn't be starting here."

People often think there is only a right decision or a wrong decision. What they miss is the no-decision option. Sometimes we don't need to make a decision at that moment. It is possible to defer it to a later time, when you'll know more and be able to make a more informed decision.

In his book *The Toyota Way,* Jeffrey Liker describes how Toyota developed the Prius. With a tight time frame and a vague goal of developing a "fuel-efficient, small-sized car," the team:

- Tested over 20 different suspensions simultaneously.
- Worked on 80 different hybrid engines before whittling them down to one.
- Started with twenty designs and then, through a design competition, selected two that were revised based on feedback before a final design was chosen.

The point is that the team didn't fixate on one particular solution too early. In fact, they simultaneously pursued a number of different options to rule out the bad and go with the good. Sure, there was a short-term cost, but greater rewards were reaped later.

It's all too easy to decide on a particular direction and get fixated on it.

Thinking about our process we could continue to explore different options and only decide which one to take at the last responsible moment.

Beyond that moment the option expires (4.4).

4.4
Defer the decision until the last responsible moment.



This is one of the most fundamental concepts in agile experience design. Don't make decisions unless you have to. Don't spec out the user interface in detail until that detail is required.

AGILE TEAM STRUCTURE AND THE ROLE OF THE DESIGNER

As organisations recognise the advantages that agile can deliver, we're increasingly seeing agile and its derivatives as the delivery project management tool of choice. This is especially true in the commercial world of digital product development, where the promises of early working software and a flexible, scalable process that enables an adaptive approach to product development is very attractive.

The world of digital product and service development is one where customer experience is critical to business success. Despite this, the role of experience design has been somewhat underrepresented on agile projects to date. Agile

project managers apply project patterns and team structures that are applicable for software delivery projects.

But when the focus shifts to be more experience-centric, those patterns need some adjustment.

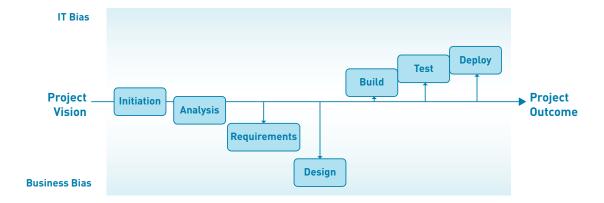
We're here to inject design back into experience-centric agile projects.

So let's have a look at the typical agile team and the role design plays in an experience-centric project. Rather than trying to inject designers into the team, we'll look at a couple of different project requirements and cross-match them with the applicable skill sets, to help agile project managers get the right people for the job. We'll explore options including "design pairing" to increase efficiency, quality, collaboration, and knowledge sharing, and then finish this section with a look at how to avoid some of the pitfalls of cross-functional teams.

SILOED FUNCTIONS VS. CROSS-FUNCTIONAL TEAMS

Most organisational structures are made up of functional silos, and lines of reporting follow functional expertise and authority. In general, there are only two opportunities for cross-functional collaboration. One is at the very top, where the heads of each functional division collaborate on the strategic direction for the organisation. The other is on projects, where expertise from each functional area is required to contribute to project success. However, even within projects, prior to the advent of agile, each phase was assigned to separate functional group of specialists and generally executed and delivered in sequence.

One problem with this approach is it can introduce functional bias. This is where a functional team, undertaking their functional project phase, pulls the project in a particular direction relevant to their area of expertise, without considering other functional areas. The subsequent function receives the outputs from the previous phase, and with limited appreciation for the previous functional expertise, then pulls the project in a different direction, adding alternative bias toward their own functional area (4.5).



4.5
Potential functional bias on a sequential project.

The best way to avoid this situation is for cross-functional teams to collaborate to create a solution. Agile uses the cross-functional team approach primarily because it offers many advantages, including:

- Efficiency: A collocated team comprising functional experts collaborating to reach a common goal will succeed far more quickly than a team separated by function, acting in a sequential manner.
- Knowledge sharing: The communication, team learning, and knowledge sharing process is much more efficient in a cross-functional team.
 Furthermore, members of the cross-functional team then cross-pollinate knowledge and communication with their original functional group.
- Innovation: By bringing together people from diverse backgrounds you're providing the stimulus for multidisciplinary thinking, a potential catalyst for increased creativity and innovation.
- Holistic success: A cross-functional team is more focused on a common directive rather than siloed functional success.

However, bringing a bunch of people together from different backgrounds, disciplines, and areas of expertise and just expecting them to get on with it, get on well, and be successful is a tall order. A cross-functional team needs both a strong leader (not manager) and members of the team to be self-directed. To be self-directed, roles and responsibilities need to be clear and individuals and the team need to be empowered to make the right decisions at the right time. They also need to share a common directive or vision.

THE TYPICAL AGILE PROJECT TEAM

In most books about agile you'll find an amorphous description of the agile project team. This is because agile is less prescriptive about who does what and is more concerned with getting the job done. In his book *The Agile Samurai*, Jonathan Rasmusson suggests that "roles blur on agile projects and they are going to be expected to wear many hats...there are people who know what needs to be built...and people who can build it...agile is less concerned about who plays what role and more worried about the right roles being played." ¹

It's much less about roles and much more about activities and the appropriate skills to do the activities. This means that a developer can write tests or undertake analysis of a user story with a product owner without other team members getting territorial. In common practise though, for reasons of efficiency, individuals stick to the activities that they have expertise in. But when a blockage in the delivery pipeline occurs, team members can apply themselves to other functional activities with which they are not traditionally involved.

THE ROLE OF THE EXPERIENCE DESIGNER ON AN AGILE PROJECT

The responsibility of an experience designer (or design pair) on an agile team is to create the design vision and drive the design direction for the experience that a customer will have when engaging with a product, service, or whole system.

So what do all these cross-functions and blurred roles mean for design and designers? Well, in the same way that a developer still writes code, and analysts still analyse information, designers still design. It just means that potentially, where time and skills allow, designers can also do other activities and other team members can get involved in some aspects of design. But don't let this put

72

you off. This doesn't diffuse quality or undermine the expertise of the designer; we still have a very important job to do. Let's look at that in a bit more detail.

The responsibility of an experience designer on an agile team is to work alongside the product owner and business analysts to create the design vision and design direction for the customer experience and define what will be built. The designer also works alongside the developers and testers to figure out how it can be built. You have the whole team or specific members or functions within a team who can input to design and help with problem solving.

Once the design vision is drafted, designers are then responsible, again with other team members, for the design detail. With a design vision in place, the details can emerge throughout the life cycle of the design development. However, and this is where we diverge from some more purist views of agile, design detail should not be emergent without a design vision to hold it all together. It is absolutely essential that time is spent before development of the experience layer on thinking holistically about the design vision.

Create a design vision that will provide focus for the rest of the design activities and guide design detail as it emerges.

SKILLS VS. ROLES: TIPS FOR PROJECT MANAGERS

There are a number of distinct skill sets that come under the umbrella of *design*; non-designers might be forgiven for thinking that all designers do every sort of design. However, that is not the case and a project manager who makes that assumption will be in as much trouble as one who believes that all developers know how to code in Java.

The best way to avoid problems and make sure that the team have the correct competencies and capabilities is to think about the skills needed rather than thinking about the roles. What's the difference? "The designer" is a role, but there are many different areas that a designer might specialise in (4.6).

content analysis interaction design

user research rapid prototyping ethnographic research

user-experience design product design

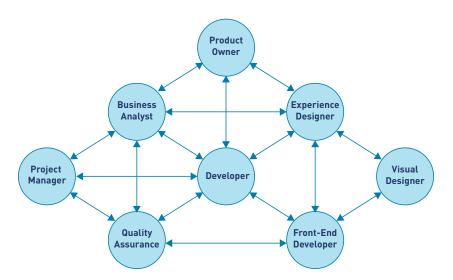
guerrilla testing sketching usability testing user profiling ideation collaborative design

process flows information architecture

visual design competitor analysis GUI design

service design design thinking customer journey mapping

You can see from the word cloud that a broad range of skills is available, and even if you don't necessarily understand what each of those skills involves, you can probably appreciate that it's hard to find all of those skills in a single designer. Some of the skills listed above are not exclusive to designers either. Talk to all the people on the team to see who has skills and experience in particular areas (4.7).



46

Experience design skills.

4.7 Agile team roles.

GENERALISTS VS. SPECIALISTS

Which is better: generalists or specialists? The answer depends on the breadth and depth of the problem. The deeper the problem goes into a specific area, the more it requires specific skills and the more you're likely to need a specialist in that area.

A specialist is someone who concentrates primarily on a particular subject, activity, or field, and his expertise is based on years of experience dedicated to that particular cause. A generalist is a person who has competencies in one or more fields.

In his book *Ten Faces of Innovation*, IDEO General Manager Tom Kelley describes "T-shaped individuals," who he says, "enjoy a breadth of knowledge in many fields, but...also have depth in at least one area of expertise."

Pabini Gabriel-Petit, Founder, Publisher, and Editor in Chief of UXmatters, provides the following definition: "User experience design takes a holistic, multidisciplinary approach to the design of user interfaces for digital products. It integrates interaction design, industrial design, information architecture, visual interface design, user assistance design, and user-centred design, ensuring coherence and consistency across all of these design dimensions. User experience design defines a product's form, behaviour, and content." And he goes on to suggest that "a UX designer is, by definition, one example of a T-shaped person."

Whether you decide to plug for a specialist, a generalist, or a T-shaped person the key is to match that person's skills with the understanding of your project's requirements. If you have limited understanding or limited budget, then the safest option is to find a generalist and set his expectations. A good generalist will let you know if additional expertise in a particular area is needed and will even help you build a case to justify the additional resource if necessary.

GIVE UP CONTROL TO GAIN CONTROL

Designers are used to controlling all the aspects of a design, from the start of the design phase to the end. Since the dotcom era, some of the more enlightened organisations have recognised that it is not enough to do design in a vacuum. Instead, they recognise and embrace the notion of customer-centred design: the idea that the design should be focused on the customer's wants, needs, and context of use. If the process is truly customer-centred, then customers should be involved throughout the design development. From the outset, where you spend time understanding the customers' world: who the customers are, what they do and how they do it, to getting them involved in collaborative design or user testing throughout the process.

So the point here is while it's good to understand the users of the system and their context, it's equally essential to add the business and technology concerns into the mix too. Now we're not expecting that on top of being experts in design that designers should also become business experts and technology experts. We are, however, advocating that designers collaborate with business representatives and developers throughout the project life cycle. This collaboration, together with the continued application of user-centred design methods will help to ensure that any designs deliver business value, provide an engaging and desirable experience for the customers, and are feasible from a technology point of view.

It's not enough to just engage with these different stakeholder groups at the onset of the project; you need to be in constant consultation with them throughout the project. As you know, things change frequently in design, and so too they change frequently in business and technology. The design needs to be continuously recalibrated to reflect the fluid nature of the age in which we live.

AVOIDING PITFALLS: TRIBAL BEHAVIOUR

Projects would be great if it weren't for the people, right? Team dynamics can make or break any situation and all the benefits of collocation definitely ring true when the team members play nicely together. However, for teams to work well together, the individual team members must all contribute to or buy into the vision and feel that they are making a worthwhile contribution that is valued by the other team members.

Having a collocated team can help to break down tribal behaviours associated with functional groups, as the functional group identity is not preeminent in a cross-functional team. However, to avoid tribal behaviour it is important that each

of the functions is represented and not disadvantaged. DK Matai, writing about digital tribes, says:

"The predominant characteristic of tribes throughout time is the need to share and to communicate ideas, thoughts, observations and views." 2

TRIBAL IDENTIFICATION

Janelle McGuinness, Head of eBusiness at an international direct retail bank

By nature, individuals have a "tribal" identification with their particular discipline and are often protective of the teams they have come from. So when they are thrown into a new cross-functional team they may not fully appreciate the skills and perspective of other specialists. Whilst each team member can provide opinions and suggestions, to keep delays to a minimum it should be clear who has responsibility for decision making in particular areas as well as deciding when to escalate, and to whom. Ultimately, making the team responsible for their collective success, and rewarding the team—not individuals—helps to ensure the teamwork necessary to achieve the desired outcome.

Tribal behaviours can still occur where team members are in a functional minority and escape back to their home tribe whenever they can for a sense of belonging. Or the opposite can occur when team members are in a functional majority and form a clique to the exclusion of some of the minority functional team members.

While team dynamics are ultimately the responsibility of the project manager, it's obviously the individual team members who contribute to the dynamic. Be mindful of tribal behaviours and avoid reverting to tribe when things don't quite go your way.

² Digital Tribes: Rising Asymmetric Power. DK Matai, Chairman, Asymmetric Threats Contingency Alliance (ATCA).

THE AGILE PROJECT ENVIRONMENT

This chapter's opening quote perfectly summarises the work ethic that we want to explore in this chapter. Henry Ford is of course famous as the proprietor of Ford automobiles, but he also invented the assembly line used in car manufacturing. The assembly line is an excellent example of essential teamwork, where each member contributes to the delivery of the vision. But almost as important as teamwork is an environment in which the team can work together.

A SHARED WORKSPACE IMPROVES INTERPERSONAL AND PROJECT COMMUNICATION

We have already said that to improve chances of success design should not happen exclusively in one phase, or be performed exclusively by designers. We also recommend that design not be done exclusively in a creative environment. To make design inclusive, integrated, and continuous it must also be collaborative and therefore the designers need to be collocated with the rest of the team. A face-to-face conversation is usually the most efficient form of communication, especially when time is of the essence. Therefore, project communication is most efficient when the team members work in a shared space.

Where teams are collocated there is no need for complex project reporting tools as the wall becomes the project dashboard and the project repository. Design artefacts work best when they are shared and understood by the rest of the team. Rather than burying design detail in documents that no one ever has time to read, design artefacts in an agile environment are displayed on the wall as a constant visual prompt to the whole team.

78

WHERE DOES A PROJECT TEAM CALL HOME?

Life on an agile project can be quite different from that of other project structures. To facilitate "individuals and interactions over processes and tools," it is preferable to have shared project space where the team members are collocated. Ideally, this is in a single space or a group of spaces in close proximity.

COLLOCATION IS KEY

Collocation is a critical success factor on an agile project. It makes sense for functional teams working on the same project to sit together. So of course it's going to make sense for cross-functional teams who are working on the same project to sit together. The key benefits are efficiency and quality of both communication and problem solving.

Collocation is key for cross-functional teams delivering a project together. Benefits include efficiency and quality of both communication and problem solving.

To be truly effective, collocation requires a certain amount of discipline from the team members. Complex thinking takes much longer when the thinking process is constantly interrupted or there are too many distractions.

Here's a summary of the key benefits of collocation of cross-functional teams:

- Closer physical proximity
- Shorter feedback cycles
- Less time spent traveling between floors and sites
- Less time spent in less frequent but longer-duration meetings where individuals benefit from only a small proportion of the total meeting time
- More rapid establishment of team building, familiarity, and trust
- Cross-functional problem solving, rather than solutions that are biased toward one particular functional area
- Tribal behaviours break down where functional groups are not prevalent

DISADVANTAGES AND PROBLEMS WITH COLLOCATION

We don't want to be idealistic. Collocation of cross-functional teams isn't for everyone or every project, so what follows are some of the main issues that come up and ways that you can solve them.

SEPARATION FROM FUNCTIONAL TEAMS

If an individual has a stronger sense of belonging to a functional group than to the project team, especially if he is in a minority on the project team, he may be reluctant to separate from the functional team. You won't solve this problem by decree; instead, acknowledge the importance of the functional tribe and allow the individual the opportunity to reconnect with his functional group. This could mean letting him attend his functional group weekly meeting, which was established long before the project team, or allowing him one day a week to work with his home-team environment to reconnect and reestablish his position in the group. Be cognisant of the fact that if the individual is having tribal issues, it might have nothing to do with the project and everything to do with his own tribal politics. He might feel that his position or value will be undermined by sustained periods of absence from the tribe.

WORKING ON MULTIPLE PROJECTS AT ONCE

Where certain capabilities are in scarce supply or where a particular functional role is not required full time on a project, some individuals may need to work on multiple projects simultaneously. Regardless of project utilisation though, individuals still need to feel that they are making a worthwhile contribution and that their contribution is recognised by the team. Simple gestures such as confirming or acknowledging a team member's attendance prior to his arrival on the project site are worthwhile. Arrange an adequate space, even if it's a "hot desk" for him to work at while he is on the project site as opposed to having him crash at someone else's space. Confirm his requirements prior to his arrival—there's nothing worse than having a limited window of opportunity and then finding that other essential contributors are unavailable.

LOOKING AT
AGILE AND WHY
DESIGNERS
SHOULD CARE

RESISTANCE FROM THE FUNCTIONAL GROUP MANAGER

There will always be the insecure middle manager who thinks you're trying to poach his team and who doesn't understand the need for collocation. First try reason and logic. If that doesn't work, try to appeal to his better nature and reason that it's necessary for the greater good of the organisation and its customers. If all else fails, then escalate. Appeal directly to the manager's direct boss. If you've gone as high as you can go and he's not giving in, you've probably got bigger problems than getting individuals to collocate.

WHEN COLLOCATION IS NOT POSSIBLE

Collocation is ideal but not always possible. Just because you can't collocate the entire team doesn't mean that you should abandon agile. You can adapt and adopt and do the best you can with the opportunities and constraints that you have. There are many reasons why you might need to work in a more distributed fashion. It could simply be that parts of your team (functional areas, for example) are located elsewhere in the region, country, or world and the cost-benefit ratio of moving the teams to a single location is too high.

Again, the wheres and hows of collocation are probably the primary concern of the project manager, but in cases where you're the person or part of the team who cannot be collocated, here are some ideas to make your project life easier:

- Up-front collocation: If you can't be there for the whole of the project, is it possible to attend the initial part (inception) where the team come together to build a shared understanding of the project? If you can't have the whole team attend the inception, can you delegate to one or two individuals who will be responsible for imparting the key messages to the home team on their return?
- Part-time collocation: If you can't be there for the whole of the project because you have commitments elsewhere, can you consider part-time collocation? You can agree on the frequency and duration of your involvement with the other team members who need your input and the project manager.

SETTING
THE
SCENE

- Videoconferencing: If you can't be there in person, can you attend remotely via videoconferencing? You don't need any fancy equipment; a free Skype account and a webcam work quite effectively.
- Instant messaging: One of the key benefits of collocation is being able to get an answer from the team when you need it. If you can't be there in person, consider using the next best thing, such as instant messaging. Don't rely on e-mail as it can take too long to get an answer, plus you can't always see from e-mail if a person is actually available. If you have a complex issue, you can use instant messaging to invite a team member to attend a videoconference.
- Collaborative tool sets: We've spent a fair chunk of this chapter talking about the collaborative workspace and the value of the visual wall. This is not such a great metaphor if you have distributed teams. There are any number of virtual collaborative tool sets available, such as Mingle from ThoughtWorks.
- Collocation at each site: Where you have distributed teams it still makes sense to have team members collocated on each of the project sites so they have the benefit of working together.
- Adjusted work schedules: You might need to consider adjusting the work schedules, especially if your distributed teams are in different time zones. This will ensure that no one team is persistently disadvantaged.

Stick with agile practices—you might not be collocated, but it shouldn't stop you from adhering to some of the other agile practices and tools such as using a card wall and daily stand-ups.

AGILE PROJECT COMMUNICATION

Communication, as with design, doesn't just happen by chance. Agile places emphasis on verbal communication and interaction rather than documentation. Therefore it's essential that everyone on the team understands the communication objectives and protocols. It's important to be clear about how each function and individual is expected to interact, and deliver and communicate outputs to the team and the wider business.

Agile takes a no-surprises approach. The general principle is when something needs to be said, say it. It's better to say it when you see it, rather than potentially compounding an issue by ignoring it and hoping it will go away. The earlier a possible issue is dealt with, the better the chances of recovering from the situation with minimal impact. As a result, there are a number of communication protocols that agile project teams use to provide ample opportunity for insight into the team and individual progress:

- Feedback is a way of communicating with individuals on the team to help them improve competency or social interaction. The structure is based on Pendleton's rules³—what was done well, what was not done so well, and what could be improved. The main objective is to provide the opportunity for growth in a positive and constructive manner.
- Stand-ups are a team communication protocol used within the development phase. They are short, succinct daily meetings that keep the team informed of progress being made, current and intended activities, and any roadblocks.
- Showcases provide the opportunity to demonstrate and get feedback on the working software at the end of an iteration or sprint. Showcases are often attended by stakeholders from beyond the core project team.
- Retrospectives are the team version of feedback. They provide a measured forum for looking at aspects of the project that went well, those that didn't go so well, and those that might be improved.

TEAM COMMUNICATION AND SETTING EXPECTATIONS ABOUT DESIGN AND AGILE

Designer's perspective: If you're a designer who has never worked on an agile project before, it's worthwhile getting to know the project manager before you start. This is your opportunity to let the project manager (PM) know that you're new to the agile environment and that you'd like to know generally what's expected of the project team members. You might discover that you're not the

³ Pendleton D, Schofield T, Tate P, Havelock P. The Consultation, An Approach to Teaching and Learning. Oxford: Oxford Medical Publications, 1984.

only newbie. Often, a project team consists of members with varying degrees of agile experience and that should be of little concern. If the PM is aware there are agile newbies on the team, then he can dedicate some time to covering the process and the protocols. He may choose to run informal agile coaching sessions, or even assign an agile coach to the project to help the newbies get up to speed.

While you're getting to know the PM it's also worth asking what experience he has with agile projects with a design component and how he has integrated design with development. If the PM has only worked on delivery projects that did not have an integrated design, ask if he already has a plan for integrating design activities and design tasks and, if not, if he would be willing to work with you to make a plan. If the PM does have design and agile project experience, ask him how he intends to include design activities and tasks in the plan. Allow him time to explain the process and make notes about any areas of concern. At the end of his explanation relay any concerns you might have about the process, pointing out the possible impact to the project if the concerns are not addressed. Again, ask if he would be willing to work with you to address the concerns and adjust the plan accordingly.

Project manager's perspective: If you're a project manager, spend some time getting to know your designers and understand what their agile experience is. As with all functional team members, if the designers have only worked in a waterfall-style project environment, the agile framework for design might take some getting used to. You make need to make provisions for agile training or for an agile coach to work with the team.

If you haven't had experience with design on an agile project, ask if your designers have. If they have agile experience, take the time to understand what they need and what specific design tasks and activities they need to do, but also look out for the other project activities that will either affect design or that will be affected by design.

If neither you nor the designers have had agile design experience, take some time to understand the tasks and activities that the designers consider critical and invite them to help you plan how to incorporate them into the project.

Obviously you have bigger concerns than just the designers on the team, but it's certainly worth canvassing the other roles to see who else has worked with

designers on an agile project. Run a mini-retrospective with the designers to uncover what worked well in the past and what didn't work well. By identifying pains early on hopefully you can avoid problems and functional conflict biased by a poor prior experience. Look for opportunities to get cross-functional team members working closely together to improve collaboration. It's essential that business analysts work closely with the designers to uncover the user stories and the narratives.

At the beginning of the project you'll need to communicate with the entire team about everyone's roles and expected responsibilities. Let them all know how you expect design to be integrated and how collaboration is everyone's responsibility. The project will suffer if even one of the functional representatives doesn't pull his weight. Let the project team know how design tasks will be tracked and how they will feed into development.

Also communicate the project plan, highlighting to the entire team where functional activities should occur so that the whole team can decide what is relevant to them and what they need to do about it. So, for example, a lead developer might decide that he doesn't need to attend the wider business design review meetings, but he might want to attend the customer-review planning sessions so that he can agree to the scope of development work for customer testing.

AGILE PROJECT MANAGEMENT

There are many books and training courses on agile project management, but to our knowledge there are none that address the management of design and design activities on an agile project. This is a major oversight in our opinion, because good design does not happen by accident. Design needs to be baked into the process, thought through, planned, and managed.

Traditionally, the designer or design team takes care of the design management, where design activities are contained in a design phase. When design is tightly integrated with delivery, as it should be on an agile project, then the agile project manager must be much more actively involved with design management. Where

this is not the case and design is treated separately to the rest of the team, design can become a bottleneck because design and development are working to different priorities and schedules.

Agile is quite a different way of working for designers, and integrating design with delivery on agile projects is a fairly immature process for agile project management. Therefore, there needs to be a bit of give and take on both sides for it to work.

MANAGING DESIGN AND DESIGNERS: TIPS FOR AGILE PROJECT MANAGERS

If you're an agile project manager, or even a lead designer on a team of multiple designers, you'll need to help the designers and other team members understand the collaborative design approach, collocation, and communication methods. Expect some resistance to start with, as humans by nature are opposed to change. However, the key to successful adoption of this new way of working is to offer it as a flexible framework, then any good, self-organised team can adopt and adapt the approach that is best suited to them and to the project.

To determine whether you have the correct design resources for your team, you need to consider a number of factors, including:

- Is the user interface/customer experience critical to the success of the project or organisation?
- Is the product or service well-established in the marketplace?
- Is the brand well-established in the marketplace?
- Will the product/service attract high traffic?
- Is the product being released into a mature market, with lots of competition?

The more questions that you answer with yes, the more you need to increase the volume of design effort. You also need to understand what kind of designers you need on your team.

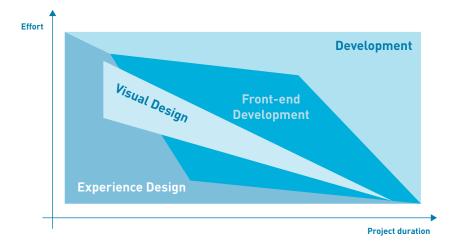
You'll need to ascertain what the designers know about the agile process, tools, and techniques, and, if necessary, run some introductory sessions. You'll need to help them understand how they fit into and feed the development life cycle.

More importantly, you'll need to help them understand that design is no longer all done up front. This may well be one of the biggest challenges for the designers: working out how to create a design vision and then letting the design vision emerge throughout the development process.

SUPPLY AND DEMAND

Once you've determined what kind of designers you need, you need to think about when to get them involved and for what duration. As a general rule, you'll probably need more design involvement at the beginning of the project than you will at the end. This is not to be confused with big, up-front design. The difference is that there will be a finite number of design challenges on any project, and once the solutions for the design patterns have been established, the details can be applied by the business analysts and developers as the user stories are played out (4.8).

4.8
Experience design involvement on an agile project.



Ideally, the lead experience designer should be on the project from the start, especially where customer experience is critical to success. However, you probably won't need to introduce some of the other design resources until later on. Visual designers may not need to get involved until the general experience design direction has been set. Equally, front-end developers may not be needed until after some of the initial visual design work. Although the front-end developers

can start the HTML structure in advance of any CSS and visual presentation layer work, and they can also help test design concepts in presentation layer code, so it can be fruitful having front-end developers around earlier.

WHEN YOU NEED TO BRING IN DESIGN HELP

Cross-functional teams are all well and good, but what do you do when you're lacking capability in a particular functional area that is essential? As with all projects you have to beg, borrow, steal, or buy it. However, agile is such a different way of working that it can be difficult to plug people and resources into the process. Most of the agile project pains we hear about involve agile teams having to work with service providers who are not agile. Incompatible methods and processes can create a world of hurt for everyone.

If there's no design capability within the project team and you need to outsource it, choose a design organisation or individual who is flexible. It doesn't matter if they don't have agile project experience, but they must be willing to work on-site with the project team, collaborate to develop the design throughout the process, and produce design artefacts that are lightweight and facilitate conversation, rather than rely on heavy documentation. Determining the design credentials of your design supplier is essential, but you also need to consider the process and cultural fit. Here are some things to consider:

- Talk to the designers/design manager before they start on the project to get an understanding of how they like to work.
- Ask them if they are willing to collocate; if not, think very hard about whether they are the right supplier.
- Ask if they intend to work on your project full time, and if not, how they will ensure their availability during critical decision-making points.
- Ask about their experience collaborating with business stakeholders and developers throughout the process. If they have no experience, probe deeper about their willingness to collaborate.

Don't be convinced by suppliers who tell you that they need to work at their offices because they have the kit and the support they need. No matter how great the intent at the start of the project, the relationship will break down over time. Designers who work off-site tend to want to produce pixel-perfect designs

before revealing anything. No matter how quick they are, it's still wasted effort producing pixel-perfect designs if they are wrong. It is much more efficient to work in a low-fidelity way to start with and to get frequent feedback about work in progress so that the designer can adjust and adapt as he goes. Also, it takes much longer and much more effort to send an e-mail with attachments and words to explain the design intent than to have a quick face-to-face conversation.

The same can be said when you source design capability from within your organisation. You really need the designers to collocate with the project team for the duration of their involvement. If you get any resistance, remind them that you're not asking them to make a permanent move away from their department. Most designers understand the benefits within a very short period of time.

MANAGING DESIGN AND DESIGNERS: TIPS FOR DESIGNERS ON AN AGILE PROJECT

Agile project managers are not the taskmasters and shepherds that other project managers need to be; they are more like leaders. Agile projects are much more self-directed and agile teams are self-organising. An agile project manager does not need to assign tasks to team members because they can do that for themselves when they are ready to work on the next thing. Instead, the role of the project manager on an agile project is to:

- Inspire and motivate the team and to help them focus on the project vision.
- Remove blockers or anything that is impeding the progress of the project.
- Ensure that communication is free-flowing.
- Promote the use of the agile principles, tools, and techniques.

As a designer, the project manager should become your new best friend because he can help you communicate to the rest of the team about the value of design and how it affects the success of the project. But before he can do this, he needs to understand the value, the activities, and the effort required, and you need to help him with this. Get to know your project manager and understand what experience he has had in managing agile projects with a design component.

SETTING
THE
SCENE

If you're new to agile and the PM has experience managing design on agile projects, talk to him about his previous projects to understand where design activities fit in and how to work collaboratively with analysts and developers.

If you're new to agile and the PM has no experience managing design on an agile project, talk to the PM about what you aim to achieve with design and how you have worked previously. With his agile experience and your design experience, you should be able to come up with a plan that will work for you both. You'll have to adjust and adapt; try to be flexible and think creatively about the design process. Remember, you don't have to compromise on design quality because you're changing your approach. The more you can help him understand about design and what you need, the more he can help you and help the rest of the team help you.

If you're experienced in design on agile projects but the PM is not, then simply help him understand what has worked well in the past and what did not work well. Tell him about some of the problems you had that blocked your progress so that he knows what to look out for. If the project manager is aware of potential issues like this he can make it happen, which takes some of the pressure off you.

If both you and the PM have experience with design on an agile project, then happy days. Well almost—it's still worthwhile having a conversation and making sure that you have matching expectations because, as we've mentioned, there is no one-size-fits-all agile process. Compare notes about what worked well in the past, what you would like to keep doing, and what that caused problems.

DESIGN ACTIVITIES TO BUILD INTO THE PLAN

These are design-orientated activities that you may wish to build into the project process and planned for:

Regular end-customer feedback is about engaging with end customers to find out what's not working in the design so that designs can be adjusted before they are developed. Techniques range from "guerrilla testing" to formal lab-based testing, and the time and effort increase accordingly. Ideally, feedback should happen as frequently as possible, such as once an iteration for one to two cycles, or multiple times an iteration where the iterations are longer.



Ask the PM to help get content from outside providers to populate a design. This helps everyone. LOOKING AT
AGILE AND WHY
DESIGNERS
SHOULD CARE

- Regular feedback from business stakeholders who may or may not be directly involved in the project team. This gives everyone who has a stake in the design the opportunity to give input and feedback about the designs. These meetings will likely need to happen once or twice within an iteration.
- Frequent interaction with developers to ensure that the design ideas are feasible and also to get input about what the technology can do to enhance the designs. These need not be formal meetings but the conversations need to happen frequently.
- Frequent interaction with business analysts (BAs) to ensure that the designs cover all the user stories and that the user stories describe the full extent of the design. Again, this is not a formal session, but conversations need to happen regularly—multiple times a day.
- Interaction with QAs on the project to make sure that the tests reflect important interaction, visual design, and usability criteria too.
- Cross-functional conversations can encompass all the points listed above. When BAs, designers, and developers all need to have conversations with the business, it makes sense to have these conversations once and have cross-functional input. Discuss with a representative from each functional area to find out the most efficient way of discussing areas of common ground.

IN SUMMARY

In this chapter, we looked at the agile experience design project process and how design and designers fit in. We looked at what this means for designers who are new to agile, and for agile project managers who are new to design.

COMING NEXT

Now that you have a high-level understanding of the agile process, we're going to look at the specific activities you need to do to get ready to start.

INDEX

A/8 testing, 1.4, 251-252 acceptance criteria for iterations, 205 in user stories, 176 acutivities versus processes, 6.7 rapidity of, 9.8 time-boxed, 9.8 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile adoption, caring about, 42 agile anti-osigin, 43 species of esign phase, 42-43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67-68 emergent with direction, 9 inclusive sepect, 10-11 introducing, 107 iterative aspect, 10-11 reputation of, 1.44 technology needs, 9.4 ay overview, 8-9, 24 preferences for working software, 24 voverview, 8-9, 24 customer collaboration, 24 et et versus right items, 24 overview, 8-9, 24 over	6-up sketch, example of, 162 20/80 rule, 117	agile project environment	cross-functional nature of, 49
A/B testing, 14, 251–252 acceptance criteria for iterations, 205 in user stories, 176 activities versus processes, 67 rapidity of, 98 time-boxed, 98 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). See also design; experience design absence of design phase, 42-43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67-68 emergent with direction, 9 inclusive aspect, 10-11 introducing, 107 iterative aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifiesto authors of, 23 customer collaboration, 24, 24 customer collaboration, 24, 24 customer collaboration, 24, 24 customer collaboration, 24, 24 customer collaboration, 24, 27-29, 33 year of creation, 23 agile project communication. See asso communication chain at B2B company feedback, 82 protocols, 82 protocols, 82 protocols, 82 setting expectations, 82-84 showcases, 82 setting expectations, 82-84 showcases, 82 collocation at sites, 81 collocation at sites, 81 instant massaging, 81 resistance from functional treastives, 80-81 collocation at sites, 81 instant massaging, 81 resistance from functional group manager, 80 design on design netple, 87-8 design and designers, 85-86 supply and demand, 86-87 galle projects, See also product activates were proper	20/ 00 luic, 111	adjusted work schedules, 81	customers, 105 developer(s), 103
A/B testing, 14, 251–252 acceptance criteria for iterations, 205 in user stories, 176 activities versus processes, 67 rapidity of, 98 time-boxed, 98 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile adoption, caring about, 42 agile anti-clasign, 45 Agile Experience Design (AXD), See also design, experience design, absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67-68 emergent with direction, 9 integration and collaboration, 9-11 introducing, 107 iterative aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 33 authors of, 23 customer collaboration, 24 overview, 8-9, 24 preforences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 yoar of creation, 23 agile projects consumication chain at B2B company feedback, 82 protocols, 82 reftospectives, 82 setting expectations, 82–84 showcases, 82 setting expectations, 82–84 showcases, 82	Δ.		
acceptance criteria for iterations, 205 in user stories, 176 activities versus processes, 67 rapidity of, 98 time-boxed, 98 Adams, Douglas, 239, 262 Affinity mapping in Toolbox, 271 agile, roots of, 213 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). See also design, experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 10–11 intense aspect, 10–11 intense aspect, 10–11 intense aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 23 vorking software, 24 overview, 8–9, 24 preferences for communication. See also communication chain at B2B company feedback, 82 protocols, 82 protocols, 82 protocols, 82 protocols, 82 setting expectations, 82–84 showcases, 82 solved and provided and provide for functional group manager, 80 separation from functional tems, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 agile project management bringing in design help, 87–88 design and designers, 85–86 supply and demand, 86–87 agile projects. See also product development activities versus processes, 67 asking questions, 63 asking questions, 63 asking questions, 63 asking questions, 63 asking wash, 63–64 change built into, 30–31 continuing improvement, 65 developing, 64 doveloping details, 12–13 discovery, 63 elaborating, 65 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initiat stages of, 10 integration and collaboration, 49 project managers in the works, 106-107 structure of, 68–70 staking dove or subtractive activities, 62 grouping iterative activities, 62 inplementation, 64 initiat mems, 79 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 protocols, 82 protocols, 82 protocols, 82 p		,	
activities versus processes, 67 rapidity of, 98 time-boxed, 98 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile, roots of, 213 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 decision-making process, 67–68 emergent with direction, 9 integration and collaboration, 9-11 intense aspect, 10–11 intense aspect, 10–11 reputation of, 144 technology needs, 9 Agile Mainfesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 elft versus irght items, 24 overview, 8–9, 24 preforences for working software, 29 responding to change, 24, 33 website, 23 working software, 24 greater communication chain at B28 company feedback, 82 protocols, 82 protocols, 82 setting expectations, 82–84 showcases, 8	,	· · · · · · · · · · · · · · · · · · ·	,
in user stories, 176 activities versus processes, 67 rapidity of, 98 time-boxed, 98 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile, roots of, 213 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). See also design; experience design (AXD). See also design; experience design (AXD). See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 10–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 introducing in office of design on design and designers, 85–86 also product development activities versus processes, 67 asking duestions, 63 asking questions, 63 asking questions, 63 asking duestions, 63 asking questions, 63 asking duestions, 63 asking duestions, 63 alaborating, 63–64 change built into, 30–31 developing, 64 developing, 64 developing, 64 initial stages of, 10 integration and collaboration, 9			generalists vs. specialists, 74
manager, 30 separation from functional teams, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 agile project management bringing in design help, 87–88 design and designers, 85–86 supply and delemand, 86–87 agile project design design help, 87–88 design and designers, 85–86 supply and delemand, 86–87 agile project design demand, 86–87 agile project design demand, 86–87 agile project management activities versus processes, 67 asking how, 65 asking how, 65 asking how, 65 asking how, 65 asking neutron of developing, 64 developing, 65 asking numbers of 100 design on 46 security and compliance, 106 training, 106 velocity of, 124–195 visual designer, 103 fail fast 'or succeed quickly, 13 analytics, 253–261 avoiding jumping to conversion, 259–261 entry points, 255–256 establishing baselines, 261 versus waterfall projects, 79 agile repreted management, 80 project management, 80 project management, 90 project tamas, 106 role of design of the of the works, 106 of the security and compliance, 106 senior business stakeholders, 104 siloed functions vs. cross-functions vs. cross-functions vs. cross-functions vs. cross-functions vs. cross-functions vs. cross-functions	,	resistance from functional group	levels of commitment, 104-106
separation from functional teams, 79 shared workspace, 77–78, 199 videoconferencing, 81 working on multiple projects, 79 agile, roots of, 213 agile anti-design, 45 Agile Experience Design (AXD). See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 introducing, 107 iterative aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 authors of, 23 customer collaboration, 24, 30–31, 33 endividuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 agile project communication. See also communication chain at B28 company feedback, 82 protocols, 82 protocols, 82 setting expectations, 82–84 showcases, 82 setting expectations, 82–84 showcases, 82 setting expectations, 82–84 showcases, 82 showcases	*		marketing, 106
teams, 79 time-boxed, 98 Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile, roots of, 213 agile adoption, caring about, 42 agile and telesign, 45 Agile Experience Design (AXD), See also design; experience design absence of design phase, 42-43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67-68 emergent with direction, 9 integration and collaboration, 9-11 intense aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30-31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8-9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27-29, 33 year of creation, 23 agile project management bringing in design help, 87-88 design and designers, 85-86 supply and demand, 86-87 agile projects. See also product development activities versus processes, 67 asking plow, 65 asking whaf, 63-64 chealoping, 64 developing, 64 developing, 64 developing, 64 developing, 64 developing details, 12-13 discovery, 63 elaborating, 65 envisioning, 63-64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 9-11 intense aspect, 10-11 reputation of, 144 technology needs, 9 active versus right items, 24 overview, 8-9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27-29, 33 year of creation, 23 agile project management bringing in design help, 87-88 design and designers, 85-86 supply and demand, 86-87 agile projects, 79 agile project, 79 asking pow, 65 asking pow, 65 asking pow, 65 asking pow, 65 askin		•	
Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 agile, roots of, 23 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9-11 nitroducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 rodividuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 agile project communication. See also communication. See also communication chain at B2B company feedback, 82 protocols, 82 protocols, 82 setting expectations, 82–84 showcases, 82 setting expectations,			
Adams, Douglas, 239, 262 affinity mapping in Toolbox, 271 aglie, roots of, 213 aglie adoption, caring about, 42 aglie anti-design, 45 Aglie Experience Design (AXD), See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 intense aspect, 10–11 reputation of, 144 technology needs, 9 Aglie Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 verview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 gues or or creation, 23 aglie project management bringing in design help, 87–88 design and designers, 85–86 supply and demand, 86–87 aglie projects. See also product development activities versus processes, 67 asking how, 65 asking questions, 63 asking what, 63–64 developing, 64 developing details, 12–13 discovery, 63 alaborating, 65 envisioning, 63–64 erolytic file of evilution, 65 gathering insights, 63 grouping iterative activities, 62 initial stages of, 10 integration and collaboration, 64 initial stages of, 10 integration and collaboration, 69 integration and collaboration, 69 interative aspect, 10–11 introducing, 107 iterative aspect, 10–11 suctomer of laboration, 65 gathering insights, 63 golia project tamanagement activities versus processes, 67 asking how, 65 asking questions, 63 asking what, 63–64 evolution, 65 envisioning, 63–64 erolytic file of evolution, 65 envisioning, 63–64 evolution, 65 envisioning, 63–64 evolution, 65 envisioning, 63–64 evolution, 65 subheral versus concurrent, 10, 53 stakeholder engagement, 104 vision details, 12–13 introducing, 107 interative			
affinity mapping in Toolbox, 271 agile project management bringing in design help, 87-88 design and designers, 85-86 supply and demand, 86-87 agile project management bringing in design help, 87-88 design and designers, 85-86 supply and demand, 86-87 agile projects. See also product development activities versus processes, 67 asking how, 65 asking how, 65 asking how, 65 asking projects. See also product development activities versus processes, 67 asking how, 65 asking how, 65 asking how, 65 asking how, 65 asking questions, 63 asking what, 63-64 change built into, 30-31 continuing improvement, 65 developing, 64 developing, 64 developing, 64 developing, 64 developing, 63-64 evolution, 65 agathering insights, 63 grouping iterative aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24 preferences for working software, 24 coverview, 8-9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27-29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82-84 showcases, 82	•		
agile, roots of, 213 agile adoption, caring about, 42 agile anti-design, 45 Agile Experience Design (AXD). Sea also design; experience design absence of design phase, 42-43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67-68 emergent with direction, 9 inclusive aspect, 10-11 intense aspect, 10-11 intense aspect, 10-11 intense aspect, 10-11 intense aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 230-31, 33 individuals and interactions of authors of, 23 customer collaboration, 24 overview, 8-9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 37 earlier or company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82-84 showcases, 82 stokesses, 82 showcases, 82 setting expectations, 82-84 showcases, 82 sh			
design and designers. 85–86 supply and demand, 86–87 aglie anti-design, 42 also design; experience besign (AXD). See also design; experience design absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Aglie Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 year of creation, 23 agile project communication. See also communication see also communication, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82	agile, roots of, 213		
Agile Experience Design (AXD). See also design; experience design absence of design phase, 42–43 agile projects. See also product development activities versus processes, 67 asking how, 65 asking how, 65 asking what, 63–64 the development activities versus processes, 67 asking how, 65 asking questions, 63 asking what, 63–64 the developing details, 12–13 discovery, 63 elaborating, 65 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 left versus right items, 24 overview, 8–9, 24 perferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 website, 23 agile project communication. See also communication See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82	agile adoption, caring about, 42		
Agile Experience Design (AND). See also product development absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 introducing, 107 iterative aspect, 10–11 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 24 left versus right items, 24 overview, 8–9, 24 preference for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 year of creation, 23 agile projects, See also product development activities versus processes, 67 asking how, 65 asking questions, 63 asking what, 63–64 change built into, 30–31 continuing improvement, 65 developing, 64 change built into, 30–31 and integration and collaboration, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 asper of creation, 29 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 core members of 102–107 remembers of 102–107 remembers of 102–107 remembers of 102–107 resources of 102–107 resources, 176 remembers of 102–107 resources, 67 resurbers of 102–107 resources, 67 resources, 6			
absence of design phase, 42–43 aim of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 terative aspect, 10–11 eputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 voverview, 8–9, 24 voverview, 8–9, 24 yorknige, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 setting exp			
absence or design phase, 42–43 and activities versus processes, 67 asking how, 65 asking how, 65 asking what, 63–64 change built into, 30–31 continuing improvement, 65 developing, 64 developing, 64 developing, 64 developing, 64 developing, 63 alaboration, 9–11 dintroducing, 107 discovery, 63 elaborating, 63–64 evolution, 65 gathering insights, 63 gorging iterative aspect, 10–11 envisioning, 63–64 evolution, 65 gathering insights, 63 gorging iterative activities, 62 implementation, 64 initial stages of, 10 authors of, 23 customer collaboration, 24 groeping, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 year of creation, 23 agile project communication. See also communication chain at 828 company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding software, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 corresponding to cor			•
alm of, 9 business needs, 9 components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 asking what, 63–64 change built into, 30–31 continuing improvement, 65 developing, 64 developing, 64 developing, 64 developing, 64 developing, 63–64 envisioning, 65 envisioning, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 initial stages of, 10 integration and collaboration, 49 roject management, 30 removing uncertainty, 65–66 removing uncertainty, 65–66 removing uncertainty, 65–66 removing uncertainty, 65–67 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 rollobox, 273 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Incustomer needs, 9 subject matter experts, 105 technical architecture, 106 training, 106 velocity of, 194–195 visual designer, 103 fail fast "or succeed quickly, 13 analytics, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 content, 258–259 conversion, 259–261 entry points, 256–257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Toolbox, 273 as-is/to-be process mapping in Toolbox, 273 as-is/t	9 .	•	
components, 11 customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9-11 intense aspect, 10–11 intense aspect, 10–11 intense aspect, 10–11 interative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 responding to change, 24, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 asking what, 63–64 change built into, 30–31 continuing improvement, 65 developing, 64 developing details, 12–13 discovery, 63 elaborating, 65 envisioning, 63 developing, 64 developing details, 12–13 discovery, 63 elaborating, 65 envisioning, 63-64 eveloping details, 12–13 discovery, 63 elaborating, 65 envisioning, 63 developing details, 12–13 discovery, 63 elaborating, 65 envisioning, 63 developing details, 12–13 discovery, 63 galaborating, 65 envisioning, 63 developing details, 12–13 discovery, 63 galaborating, 65 envisioning, 63 eveloping details, 12–13 discovery, 63 galaborating, 65 envisioning, 63 eveloping, 64 developing details, 12–13 discovery, 63 grouping iterative activities, 62 intplementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile tams. See also teams agencies, 106 avoiding jumping to conclusions, 22 traffic, 257–258 using, 261 events, 259 exit points, 256–257 time, 257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 events, 259 exit points, 256-257 time, 257 t			
customer needs, 9 decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 asking what, 63–64 change built into, 30–31 chall sets proved design on, 3 elaborating, 65 envisioning, 65 gathering insights, 63 grouping iterative activities, 62 inplementation, 64 initial stages of, 10 integration and collaboration, 49 project manter experts, 106 training, 106 velocity of, 194–195 visual designer, 103 analytics, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 cautin		asking questions, 63	structure of, 68-70
decision-making process, 67–68 emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9-11 intense aspect, 10-11 introducing, 107 iterative aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 comments, 65 developing, 64 developing, 64 developing details, 12-13 developing, 65 developing, 64 developing details, 12-13 developing, 64 developing details, 12-13 developing, 64 developing details, 12-13 developing, 64 developing, 64 developing, 64 developing details, 12-13 developing, 63 developing, 64 developing details, 12-13 developing, 64 developing details, 12-13 developing details, 12-13 developing details, 12-13 developing details, 12-13 developing, 64 developing details, 12-13 developing details	•	asking what, 63–64	
emergent with direction, 9 inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24 grotocols, 82 retrospectives, 82 setting expectations, 82 setting expectations, 82–84 showcases, 82 commany inclusive aspect, 9–11 introducing, 107 developing, 64 developing details, 12–13 discovery, 63 elaborating, 64 evolution, 65 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 core members of 102–107 interative aspect, 10–11 events of 25 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 evolution, 65 evisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 entry points, 255–256 establishing baselines, 261 events, 259 exit points, 255–257 time, 257–258 using, 261 visitor details, 261 antitied stages of, 10 events, 259 exit points, 255–258 using, 261 visitor details, 261 antitied stages of, 10 events, 259 exit points, 255–257 time, 257–258 using, 261 visitor details, 261 antitied stages, 261 events, 259 exit points, 256–257 time, 257–258 using, 261 visitor details, 261 antitied stages, 261 events, 259 exit points, 256–257 time, 257–258 using, 261 approver, role in waterfall	•		
inclusive aspect, 9 integration and collaboration, 9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 adveloping details, 12–13 discovery, 63 elaborating, 65 envisioning, 63–64 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 velocity of, 194–195 visual designer, 103 ffail fast" or succeed quickly, 13 analytics, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 content, 258–259 content, 258–259 content, 258–256 establishing baselines, 261 events, 259 evit points, 255–256 establishing baselines, 261 events, 259 exit points, 255–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 12–13 analytics, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 content, 258–259 content, 258–259 content, 258–259 content, 258–259 content, 258–256 establishing baselines, 261 events, 259 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 20-103 analytics, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 content, 258–256 establishing baselines, 261 events, 259 exit points, 256–257 time, 257 in Toolbox, 274 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 274 assumptions as-is experience desi			<u> </u>
integration and collaboration, 9-11 discovery, 63 elaborating, 65 envisioning, 63-64 evolution, 65 gathering insights, 63 grouping iterative aspect, 10-11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30-31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8-9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 29 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82-84 showcases, 82	•		
9–11 intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 noticiting and collaboration, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding jumping to conclusions, 253–261 avoiding jumping to conclusions, 262 caution about reliance on, 262 content, 258–259 content, 258–259 content, 258–259 intitial stages of, 10 entry points, 255–256 entry points, 255–256 entry points, 255–256 entry points, 255–256 entry points, 255–257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 avoiding jumping to conclusions, 22 caution about reliance on, 262 content, 258–259 content, 258–259 content, 258–259 content, 258–259 content, 258–259 interative activities, 62 intitial stages of, 10 entry points, 255–256 establishing baselines, 261 events, 259 exit points, 255–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82			
intense aspect, 10–11 introducing, 107 iterative aspect, 10–11 reputation of, 144 group technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 37 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 envisioning, 63–64 evolution, 65 candulation, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working software, 24, 27–29, 33 year of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 envisioning, 63–64 evolution, 65 catheving insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 entry points, 255–256 establishing baselines, 261 events, 259 exit points, 256–257 time, 257 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176		3.	
introducing, 107 iterative aspect, 10–11 reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 evolution, 65 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 contclusions, 262 caution about reliance on, 262 content, 258–259 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 events, 259 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories 176	intense aspect, 10-11	<u> </u>	•
reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 gathering insights, 63 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 caution about reliance on, 262 content, 258–259 entry points, 255–256 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is experience design review in Toolbox, 273 as-is experience design review in Toolbox, 274 assumptions making, 94 integration and collaboration, 49 content, 258–259 conversion, 259–261 entry points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 274 assumptions making, 94 integration and collaboration, 49 content value of the project conversion, 259–261 entry points, 255–256 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov,	introducing, 107		
reputation of, 144 technology needs, 9 Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 year of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 grouping iterative activities, 62 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 conversion, 259–261 entry points, 255–256 establishing baselines, 261 entry points, 255–256 establishing baselines, 261 entry points, 255–256 establishing baselines, 261 events, 259 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176			
Agile Manifesto authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 implementation, 64 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 mitigation and collaboration, 49 project management, 30 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 mitigation and collaboration, 49 project management, 30 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 content roles, 102–103 making, 94 in user stories 176			
authors of, 23 customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 27–29, 33 year of creation, 23 agile project communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 initial stages of, 10 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 corre members of, 100 entry points, 255–256 establishing baselines, 261 events, 259 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories 176			
customer collaboration, 24, 30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 integration and collaboration, 49 project management, 30 removing uncertainty, 65–66 role design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 core members of, 102–107 integration and collaboration, 49 project management, 30 exit points, 256–257 time, 257 in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176	S		
30–31, 33 individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 project management, 30 removing uncertainty, 65–66 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 removing uncertainty, 65–66 exit points, 256–257 time, 257 time, 257 time, 257 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 272 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be process mapping in Toolbox, 272 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is/to-be			
individuals and interactions, 24 left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 retrospectives, 82 retrospectives, 82 showcases, 82 retrospectives, 82 retrospectives		project management, 30	events, 259
left versus right items, 24 overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 role of design on, 46 sequential versus concurrent, 10, 53 stakeholder engagement, 146 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 sequential versus concurrent, in Toolbox, 272 traffic, 257–258 using, 261 visitor details, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories 176			
overview, 8–9, 24 preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 stakeholder engagement, 146 success on, 49 versus waterf		o ,	•
preferences for working software, 29 responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 setting expectations are setting expectations, 82–84 showcases, 82 stakeholder engagement, 146 success of, 11 success of, 11 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 in user stories, 176			
responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 success of, 11 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 restrocted tealis, 261 anti-design, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176		•	
responding to change, 24, 33 website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 success on, 49 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 more members of, 102–107 architects designer, explained, 45 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176	software, 29		
website, 23 working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 versus waterfall projects, 10, 25 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 more members of 102–107 approver, role in waterfall projects, 21 architects designers, 57 Armitage, John, 34 Asimov, Isaac, 37 as-is experience design review in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 in user stories, 176	responding to change, 24, 33		
working software, 24, 27–29, 33 year of creation, 23 agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 working on multiple, 79 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 in user stories, 176		· · · · · · · · · · · · · · · · · · ·	
agile project communication. See also communication chain at B2B company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 agile teams. See also teams agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 in user stories, 176	•		
agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 retrospectives, 82 setting expectations, 82–84 showcases, 82 setting expectations, 82 solutions agencies, 106 avoiding tribal behaviour, 75–76 business analyst, 103 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 in user stories, 176			
company feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 retrospect, 82 setting expectations, 82–84 showcases, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 as-is/to-be process mapping in Toolbox, 273 as-is/to-be process mapping in Toolbox, 274 assumptions making, 94 core members of 102–107 in user stories, 176			
feedback, 82 protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 feedback, 82 characteristics of, 27 clarifying business objectives of, 113–114 content roles, 102–103 making, 94 core members of, 102–107 making, 94 in user stories, 176		avoiding tribal behaviour, 75–76	as-is experience design review in
protocols, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 retrospectives, 82 setting expectations, 82–84 showcases, 82 retrospectives of, 113–114 content roles, 102–103 making, 94 core members of 102–107 in user stories, 176		business analyst, 103	Toolbox, 273
retrospectives, 82 clarifying business objectives of, 100lbox, 274 setting expectations, 82–84 showcases, 82 core members of 102–103 making, 94 core members of 102–107 in user stories, 176			
setting expectations, 82–84 assumptions showcases, 82 content roles, 102–103 making, 94 core members of 102–107 in user stories, 176			
showcases, 82 content roles, 102–103 making, 94 content roles, 102–107 in user stories, 176			•
core members of 102=107 in light stories 176			<u>.</u>
		core members of, 102-107	in user stories, 176

ATM example, 184–186, 189	distilling into visions, 120–121	at sites, 81
author, role in waterfall projects, 21	organsational landscape, 122	up-front, 80
Autodesk model, 206	business model	communication chain at B2B
AXD (Agile Experience Design). See	canvas, 121	company, 147. See also agile
also design; experience design	channels, 121	project communication
absence of design phase, 42–43	cost structure, 121	competitor insights, considering, 123
aim of, 9	customer relationships, 121	competitor review in Toolbox, 277
business needs, 9	customer segments, 121	comps/scamps model,
components, 11	described, 101	described, 101
customer needs, 9	key activities, 121	consumers, impatience of, 50
decision-making process, 67–68	key partners, 121	contact centre managers, role of, 128
emergent with direction, 9	key resources, 121	content, considering in intentions,
inclusive aspect, 9	revenue streams, 121	122–123
integration and collaboration,	value propositions, 121	context scenarios in Toolbox, 278
9–11	business objectives, clarifying, 113	contextual inquiry in Toolbox, 279
intense aspect, 10-11	business owner, role in waterfall	continuous improvement, 243-245
introducing, 107	projects, 20	business, 244
iterative aspect, 10-11	business process, mapping out, 186	customers, 244
manifesto, 8-9	business stakeholders, getting	delivery, 239–241
reputation of, 144	feedback from, 90	design, 241–243
technology needs, 9	business strategy, 54	technology, 245
		contract negotiation, customer
В	C	collaboration over, 30-31
B2B company communication	camera as documentation in	control, giving up and gaining, 74–75
chain, 147	Toolbox, 275	convergent thinking
BAs (business analysts)	car insurance process, envisioning	applying, 158
interacting with, 90	improvement of, 160–161	versus divergent thinking, 154
role in waterfall projects, 20	change. See also pivoting	cost and time, fixing, 194
working with designers, 207	cost of, 22–23	creativity. See also success
BDD (behaviour-driven	resistance to, 263	active participants, 146-147
development), 220	responding to, 32	collaboration, 145
Beaudet, Francis, 36	checkpoints, conducting daily, 141	design by committee, 147–148
Beck, Kent, 23	Chinese whispers, 147	experimentation, 145
Beedle, Mike, 23	client, relationship to vendor, 30	integrative thinking, 145
Bennet, Michelle, 228–229	Cockburn, Alistair, 23	killjoys, 151
beta, length for Gmail, 118	code model, described, 101	mindset, 151
Bezos, Jeff, 55	code.flickr continuous	optimism, 145
Big Idea, building, 171	deployments, 241	critical path, thinking about, 64
boo.com, 124	collaborative design in Toolbox, 276	cross-functional conversations,
brainstorming, 155	collaborative discovery. See also	having, 90
brand strategy, 54	discovery; team work	cross-functional teams
Brin, Sergey, 33	implementation, 118-119,	collocation, 78
Brown, Tim, 145, 156	136–139	vs. siloed functions, 69-70
Buchheit, Paul, 118	insights, 118–119	crowdsourcing optimal designs,
bureaucracy, impact on processes, 51	intentions, 118–124	250–254
burn-up and burn-down charts,	pillars of, 119	multivariate testing, 252–253
using, 227	Collaborative Idea Generation,	split testing, 251–252
business analysts (BAs)	148–149	usability testing, 253–254
interacting with, 90	collaborative tool sets, 81	CSS, benefit of, 215
role in waterfall projects, 20	collocation	Cunningham, Ward, 23
working with designers, 207	alternatives to, 80–81	customer collaboration over contract
business bias, diagram of, 70	benefits of cross-functional	negotiation, 30–31
business goals, focusing on, 191	teams, 78	customer experience
business intentions	disadvantages, 79	strategy, 54-55
competitor insights, 123	part-time, 80	success of, 243
content strategy, 122–123		understanding, 264–265

303 INDEX

sustomer experience/journey map in	customer model, described, 101	up-front, 50
Toolbox, 280	customer service agents	and user stories, 178
sustomer goals. See also goals	double-jacking, 129	user-centred, 117
ATM example, 184–186, 189	focus groups, 129	website example, 48
decomposing, 182	customer term, use and meaning of,	when required, 50–51
laying out, 181	31–32	design activities
online banking scenario,	customer testing in Toolbox, 281	cross-functional conversations, 90
179–183	customers	end-customer feedback, 89
outlining tasks, 182–183 placing cards on wall, 181	detractors, 247 enabling to accomplish goals, 96	feedback from business stakeholders, 90
scope considerations, 181	getting feedback from, 90	interaction with business
stories, 183	passives, 246	analysts, 90
undecided items, 181	promoters, 246	interaction with developers, 90
writing on cards, 181	relationship to vendors, 30	interaction with QAs, 90
sustomer insights	role in design thinking, 63–64	design and designers, managing,
audio recording, 132	role on agile teams, 105	85–89
characteristics, 134	Tota an agna tauma, 100	design documentation
collecting, 134	D	in browser, 211–212, 215
communication, 130–132	D	living prototype, 212–215
contacting centre managers, 128	day, shape of, 109–110	prototype, 211
current pains, 135	decision-making process,	design help, bringing in, 87–88
desires, 135	democratising, 118	design input, need for, 4-5
finding users, 130	decisions	design issues, addressing, 43
focusing on, 134	basing in observation, 97	design methodology
goals, 134–135	making at last responsible moment, 67–68	brief, 46
interviewing, 132	delivery, integrating design with, 85	emergent detail, 46
issues raised, 133	design. See also AXD (Agile	evolution, 46
joining call queues, 129	Experience Design); experience	launch, 46
listening, 128–130	design	problem context, 46
making observations, 126–127,	ahead of development, 206	start, 46
130–131	by committee, 147–148	vision, 46
mimicking mindsets, 127	content and development, 49	design process, origin of, 4
needs, 135	continuous, 40	design research designers, 57
negative feedback, 133	versus creativity, 145	design resources, considering, 85
people in the wild, 124 personas, 134	enabling integration with agile, 36	design review meeting in Toolbox, 282 Design Thinking, 59
positive feedback, 133	evolution of, 216	design thinking, 59
roles, 134	in experience design, 44–45	influence on experience
ruling out self, 125–126	as functional discipline, 6-7	design, 58
scenario, 135	future for, 8	overview, 59
social media, 133	integrating with delivery, 85	role of customers in, 63-64
taking photographs, 132	iterating on live product, 32	design time, increasing, 29
talking, 130–132	just-in-time, 50, 58	design vision. See vision
use, 135	limitation of, 22	designers
wants, 135	making responsive, 13–14	architects, 57
ustomer journey. See also user	participatory, 146 "planned design" process, 43	design research, 57
stories	process of, 14	expectations of, 82-83
business process, 186	role on agile projects, 46	front-end developers, 57
cross-functional stories, 187	setting expectations about,	information architecture, 57
differentiation, 154	82–84	interaction, 56
goals laid out over time, 184	in software development, 43-44	relationship to developers, 207
illustrating, 297	start of, 51	researchers, 57
missing features, 154	success of, 22, 49	role in estimation, 193
pain points, 154	throughout entire process,	role in iterations, 206
taking, 152	51–53	role on agile teams, 68–70
UI detail, 187	traditional context, 46	tips for, 88–89

designers (continued)	elaboration	qualities of, 57
UI developers, 57	minimum viable product, 170–172	role in living prototype, 213–214
usability, 56	user stories, 172–179	role on agile teams, 71–72,
user-interface, 56	elevator pitch in Toolbox, 283	102–103
visual design, 57	environment. See agile project	experience strategy, 53-56
working with business analysts	environment	brand, 54
(BAs), 207	envision	business, 54
XD (experience design), 57	applying to solutions, 149–150	customer, 54-55
desk space versus wall space,	role in reducing uncertainty,	digital, 55–56
111–112	67–68	experiences, nature of, 37
develop	role in research, 119	Extreme Programming (XP),
role in reducing uncertainty,	envisioning, sketching during	criticism of, 33
67–68	process of, 179	
role in research, 119	estimation	F
developers. See also front-end	playing planning game, 193	
developers	role of designer, 193	Facebook, start of, 166
interacting with, 90	sizing stories, 192	failure versus success, 144
relationship to designers, 207	velocity, 194–195	feedback
role on agile teams, 103	Ethnographic Research and	importance of, 39
versus software architects, 44	Contextual Enquiry, 124	importance to iteration, 198
UI and front-end, 57	ethnographic research	role in communication, 82
digital strategy, 55-56	conducting for personas, 134	feedback-driven process,
direction, changing, 166	in Toolbox, 284	employing, 96
discover, role in reducing uncertainty,	evolutionary design, requirement	financial model, described, 101
67–68	for, 45	Fleetwood, Chris, 225–226
discovery. See also collaborative	evolve	flickr, start of, 166
discovery; research	role in reducing uncertainty,	Ford, Henry, 97
collaborative, 118-119	67–68	Fowler, Martin, 47
purpose of, 116	role in research, 119	Agile Manifesto, 23
divergent thinking	expectations, setting, 82–84	Is Design Dead?, 43
elaboration, 154	experience design. See also Agile	refactoring, 223
flexibility, 154	Experience Design (AXD); design	front-end developers, role of, 57,
fluency, 154	agile quality of, 36	213. See also developers
originality, 154	argument against, 34	functional bias, avoiding, 69–70
documentation	characteristics of, 36	functional group manager,
decreasing time on, 29	design aspect of, 44–45	resistance from, 80
ignoring, 172	design thinking, 58	functional teams, separation from, 79
popularity of, 27	developing vision, 36	functions, representing, 75–76
versus working software, 27–29	equation, 53	Futurespective, 120
done	focus of, 46	
versus continuous evolution, 37	influences on, 58	G
grammatical explanation, 16	integrating into agile process, 206	Gabriel-Petit, Pabini, 74
offline design, 17–18	involvement on agile project, 86	generalists vs. specialists, 74
online design, 18–19	lean start-up, 58	Gmail, creation of, 118
redefining meaning of, 37	Mona Lisa metaphor, 34–36	goal completeness, chart of, 227
double-jacking, explained, 129	necessity for success, 44	goals. See customer goals
3 3, 1	process of, 34-36	reaching, 96
E	roles, 73	stories for, 188
E	service design, 58	Google
Edison, Thomas A., 148	skills, 73	original vision of, 33
efficiency, advantage of, 70	taxonomy, 56	vision of calendar, 120
elaborate	use of techniques, 33	Google Analytics
role in reducing uncertainty,	user experience, 35	conversion data, 260
67–68	experience designers	Conversion Funnel, 260
role in research, 119	pairing with product owner,	Dashboard, 255
	216–217	top content data view, 259

NDFX

Gowalla, start of, 166 Gray, Dave, 111, 283	Illmensee, Tom, 31 implementation. See technical	experience acceptance
Grenning, James, 23	implementation. See technical	criteria, 221 feedback, 199–201
Groupon, start of, 166	implementation cost, focusing on,	goal completion acceptance
guerrilla testing, 253	97–98	criteria, 221–222
Guilford, J. P., 154	index cards, user stories as, 175	importance of feedback, 198
dulloru, J. F., 154	individuals and interactions, valuing,	ingredients, 199–201
	25–27	ingredients, 199–201
H	information architect, role in	interaction behaviour, 199–200
Havelock, P, 82	waterfall projects, 20	life of story, 203–204
Hesse, Hermann, 150	information architecture	as management tool, 204
Highsmith, Jim, 23	designers, 57	narrative, 205
HIPPO (high-paid person's	model, 101	objective, 199
opinion), 107	information design in Toolbox, 287	parts of, 198
HMW (How might we?) question,	information radiator, using notes	planning meeting, 203
answering, 155–156, 162	as, 141	process of, 96
Hohmann, Luke, 292	innovation, advantage of, 70	reducing ambiguity, 201
holistic success, advantage of, 70	innovation exchange, introduction	reducing uncertainty, 201
hot air balloon in Toolbox, 285	of, 158	retrospectives, 204, 229
how?	insights in Toolbox, 288	role of designer, 206
addressing via research, 117	instant messaging, 81	show-and-tells, 228
asking, 66	intentions. See business intentions	showcase, 204
Humble, Jez	interaction designers, 56	showcases, 228
"Continuous Delivery: The Value	interactions and individuals, valuing,	stand-ups, 204, 223-224
Proposition," 39	25–27	story planning meeting, 203
InfoQ presentation, 240 Humby, Clive, 242–243	interactivity, providing, 211	TDD (test-driven
Hunt, Andrew, 23	interfaces, sketching out, 187	development), 220
Hullt, Allulew, 25	IT bias, diagram of, 70	testing, 219–222
	IT staff, perception of, 5-6	tests, 199-200, 204
l .	iteration pairing, 217	visual design, 199–200
idea generation in Toolbox, 286	BAs, 218	wireframe, 205
ideas. See also solutions	designers, 219	zero, 199
being open to, 157–158	developers, 218	
Big, 171	QAs, 218–219	J
brainstorming, 155	iterations	Jeffries, Ron, 23
buying, 158	acceptance criteria, 205	journey map/customer experience in
categorising, 159	analysis and design, 203	Toolbox, 280
centering around visual	backlog and card walls, 224–226	journey maps, lo-fi versus hi-fi, 28
communication, 97	BDD (behaviour-driven	just-in-time design, 50, 58
collaborative generation of,	development), 220	
148–149	burn up, 227	K
divergent thinking, 154	business rules, 199–200	
generating, 154–158	code, 204	Kanban, 225–226
generating in weekend, 167	coding, 199–200	Katzen
grouping, 159	communicating with	advantage of, 244
HMW (How might we?),	developers, 205	explained, 232 Kelley, Tom, 74
155–156, 162	core activities, 203	• • • • • • • • • • • • • • • • • • • •
prototyping, 163–164 refining, 158–159	debt and refactoring, 222–223 defined, 198	Kern, Jon, 23 Kerth, Norman, 229, 294
role-playing, 157	design, 205–206	Kneeshaw, Deborah, 59
using matrices, 159	design, 203–206 design review meeting, 203–204	knowledge sharing, advantage of, 70
voting on, 158	doing enough, 201–202	miomodge onaring, davantage of, 10
What if?, 157	duration, 202	
· · · · · · · · · · · · · · · · · ·	, ,	

IdeaStorm, 158

L	role in process, 99–101	plan, following, 32. See also strategy
launching products. See also	story map, 101	"planned design" process, 43
products	storyboards/wireframes, 101	planning game, playing, 193
big bang theory, 234	symbolic, 100–101	PM (project manager)
big bang with rolling releases, 238	"test and refine" cycle, 100	communicating with, 82–83
customer acquisition, 237	user stories, 101	expectations of, 83-84
rolling releases, 235–237	Mona Lisa, developing, 34–36	managing design and designers,
sliding scale of strategies, 233	moneysupermarket.com, 160-161.	85–86
9	See also wireframes/storyboards	role in waterfall projects, 20
Lean management philosophy,	model	role on agile teams, 72–73, 103
37–39	multivariate testing, 14, 252–253.	Porter, Michael, 54
lean start-up, influence on	See also testing	print production process
experience design, 58	Mystery Shopping and Ethnographic	final product delivery, 17
Lean Startup Machine, 167, 171	Research, 127	by role, 18
legacy applications, 138	Research, 127	
Liker, Jeffrey, 67		start, 17
living prototype	N	prioritisation, difficulty of, 172
experience designer, 213–214	North, Dan, 65, 220	prioritisation tool, story mapping as,
front-end developer, 213-214	NPS (Net Promoter Score), 246-248	188–191
using, 212–215	calculating, 247	prioritising stories
logistical issues, taking care of, 199	detractors, 247	business need, 190
logs, mining, 254–261	passives, 246	customer need, 190
Look Inside in Toolbox, 289	promoters, 246	delighter, 191
Luu, Linda, 111	scale, 247	differentiator, 190-191
,,		frequency and volume of use, 191
	VOC (Voice of the Customer), 247	judging importance, 190–191
M		support, 191
manuals, ignoring, 172	0	prioritised list model, described, 101
Marick, Brian, 23	offline design, meaning of done,	Prius, development of, 67-68
Martin, Robert C., 23	17–18	problems. See also solutions
Matal, DK, 76	online banking scenario, 179–183	identifying, 94, 98
McGuinness, Janelle	online customer experiences,	in process, 207
Product Evolution and Measures	creating, 37	process model, described, 101
of Success, 266–267	online design, meaning of done,	processes
Tribal Identification, 76	18–19	versus activities, 67
Me and My Shadow in Toolbox, 290	opportunities, seizing, 153–154	problems in, 207
meetings, having at outset, 95	Out War Room, 111	and tools, 25
Mellor, Steve, 23		product box in Toolbox, 292
mental models, using, 99–100		product development. See also agile
million-dollar markdown, 131	P	projects
minimum viable product, 170-172.	Page, Larry, 33	activities needed for, 52
See also products	pain points, identifying, 154	Create & Deliver, 52
identifying, 189	Palmer, Michael, 243	cycle, 53
prioritisation, 172	Patton, Jeff	how? of, 52–53
strategies, 170–171	developing Mona Lisa, 34	Refine & Evolve, 52
models	iteration quote, 198	success of, 11–12
business, 101	stories mapped, 188	what? of, 52–53
code, 101	PayPal, start of, 166	who? of, 52–53
comps/scamps, 101	Pendleton, D, 82	why? of, 52–53
customer, 101	personas	
models, defined, 98	developing, 134	Product Evolution and Measures of
financial, 101	taking customer journey, 152	Success, 266–267
information architecture, 101	template, 135	Product in a Box, 120
mental, 99–100	in Toolbox, 291	product owner
prioritised list, 101	user stories as, 175-176	role in waterfall projects, 20
process, 101	pitfalls, avoiding, 75-76	working with, 216–217
prototype, 101	pivoting, 166. See also change	product vision. See vision
prototype, TOT	. 5,	

NDFX

products. See also launching products; minimum viable product	doing enough of, 117 evaluating notes, 141	solutions. See also ideas; problems collaborative idea generation, 148
continuous delivery, 39-40	focusing efforts of, 123	envisioning, 149–150
continuous design, 40	information radiator, 141	identifying, 94
defined, 38	iterate, iterate, iterate, 117	sketching out, 162–163
desirability, 144	purpose of, 116	spanners in the works, role on
dimensions of success, 38 experience, 144	sources of, 119 writing results on wall, 140–141	teams, 106
minimum viable, 170–172	researchers, designers, 57	specialists vs. generalists, 74 speed of teams, considering, 194
versus projects, 38–40	retrospectives	split testing, 14, 251–252. See also
success of, 39, 144–145	for iterations, 204, 229	testing
usability, 144	role in communication, 82	stakeholders. See <i>al</i> so teams
utility, 144	in Toolbox, 294	discovering early, 122
project life cycle, cost of change in,	reviewer, role in waterfall projects, 21	engaging, 146
22–23	Ries, Eric, 166, 171	gathering at outset, 95
project management, dimensions	role-playing, 157	mapping out at onset, 107
of, 30	roles vs. skills, 72-73	running first meetings of,
project manager (PM)		113–114
communicating with, 82–83	S	stand-ups
expectations of, 83-84	Schofield, T, 82	for iterations, 204
managing design and designers,	Schwaber, Ken, 23	in iterations, 223–224
85–86	Scrum	role in communication, 82
role in waterfall projects, 20	criticism of, 33	in Toolbox, 296
role on agile teams, 72–73, 103 project methods, sequential versus	defined, 31	status meetings. See stand-ups sticky notes, using, 132, 140
concurrent, 10	senior business stakeholders, role	stories. See user stories
project teams. See agile teams	on agile teams, 104	story life cycle
projects	senior management, requirements	analysis and design, 224
characteristics of, 38, 145	of, 11	backlog, 224
versus products, 38	sequential approach	customer validation, 224
prototype, using as design	design of, 22	design elaboration, 224
specification, 211	limitation of, 22	dev complete, 225
prototype model, described, 101	service design, influence on	in development, 224-225
prototyping	experience design, 58 services, development of, 52	identified, 224
concepts, 163–164	showcases	as kanban, 225–226
in Toolbox, 293	for iterations, 204, 228	as pull system, 225
	role in communication, 82	in QA, 225
0	in Toolbox, 295	QA complete, 225
QAs, interacting with, 90	Siddhartha quote, 150	in UAT (User Acceptance
questions	six-up sketching, implementing, 162	Testing), 225 UAT accepted, 225
answering internally, 119	skills vs. roles, 72-73	Ul complete, 224
asking, 97	Social Alerts, 133	story map
how?, 66, 117	Social CRM (Customer Relationship	example of, 186
what?, 66, 117	Management)	model, 101
why?, 66, 117	listen and monitor, 249–250	in Toolbox, 298
	reach out and engage, 250	story mapping as prioritisation tool,
R	react and respond, 250 social media, 133	188–191. See also user stories
Rasmusson, Jonathan, 71, 203	software, working. See working	storyboarding in Toolbox, 297
Read, Damien, 148-149	software	storyboards/wireframes model,
Reichheld, Fred, 246	software architects versus	described, 101
release, ingredients of, 201	developers, 44	strategic alignment, 54
research. See also discovery applying to uncertainty, 117	software development, design in,	strategy, purpose of, 53–56. See
checkpoints, 141	43–44	<i>al</i> so plan

subject matter expert, role in waterfall projects, 20 succeed quickly or "fail fast," 13 success. See also creativity defined, 62 due to design-led participation, 146 versus failure, 144 requirements, 144 seizing opportunities, 153–154 Success Sliders, 120 super users, types of, 126 supermarket stock control	security, 139 UI libraries, 137 vendor products, 138 "test and refine" cycle, model for, 100 test-driven development (TDD), 220 testing. See also multivariate testing; split testing A/B, 14 on iterations, 208–209 multivariate, 14 Thomas, Dave, 23 time and cost, fixing, 194 time structuring	Toyota's development of Prius, 67–68 trade-off sliders in Toolbox, 300 TrainCo Customer Journey, 28 transactions, viewing, 188 travel website, business problem, 156 tribal behaviour, avoiding, 75–76 Tribal Identification, 76 True Story, 228–229 Tweets, following, 133 Twitter, start of, 166 Tzu, Sun, 52
system, 131 supply and demand, 86–87 Sutherland, Jeff, 23 Sy, Desiree, 206 Sydney Design Thinkers, 59 symbolic models, using, 100–101	shape of day, 109–110 shape of week, 109 Tomazic, Tony, 51 Toolbox affinity mapping, 271 analytics, 272	U UI developers, 57 UI framework, design spikes to, 216 UI libraries, 137 uncertainty
T task analysis in Toolbox, 299 tasks, accomplishing, 96 Tate, P, 82 TDD (test-driven development), 220 team dynamics, avoiding tribal behaviour, 75–76 team work, 207–210. See also collaborative discovery areas of clarification, 208 business analysts and designers, 208 creative ideas and options, 210 design spikes, 209 evolving vision, 209 interaction behaviour, 208 testing, 208–209 visual identity, 209–210 team workspace, setup of, 199 teams, division of, 27. See also agile teams; stakeholders technical architect, role in waterfall projects, 20 technical implementation, 136 accessibility, 139 capacity, 139 constraints, 137–138 influence on design, 137 legacy applications, 138 nonfunctional requirements, 139 patterns and libraries, 137 performance, 139 reliability, 139	as-is experience design review, 273 as-is/to-be process mapping, 274 camera as documentation, 275 collaborative design, 276 competitor review, 277 context scenarios, 278 contextual inquiry, 279 customer experience/journey map, 280 customer testing, 281 design review meeting, 282 elevator pitch, 283 ethnographic research, 284 Ethnographic Research and Contextual Enquiry, 124 Futurespective, 120 hot air balloon, 285 idea generation, 286 information design, 287 insights, 288 Look Inside, 289 Me and My Shadow, 290 Mystery Shopping and Ethnographic Research, 127 personas, 291 Product Box, 120, 292 prototyping, 293 retrospective, 294 showcase, 295 Social Alerts, 133 stand-up, 296 story map, 298 storyboarding, 297 Success Sliders, 120 task analysis, 299	addressing via research, 117 line of, 65 reducing, 66 reducing in iteration, 201 reducing via models, 101 removing, 65–66 usability designers, 56 usability testing, 209, 253–254 formal, 253 guerrilla, 253 remote, 253 user researcher, role in waterfall projects, 20 user stories. See also customer journey; story mapping acceptance criteria, 176 assumptions, 176 business language, 176 considering alternatives, 191 design, 178 determining, 183 estimable element, 177 examples of, 173–174 for goals, 188 ignoring manuals, 172 importance of, 173–174 independent element, 176–177 as index cards, 175 map of, 184–186 mapping, 188 narrative, 176 negotiable element, 177 as personas, 175–176 prioritising, 190–191 purposes of, 174 quality of, 176–177

NDFX

testable element, 177	W	Implement, 19
valuable element, 177–178	wall	Initiation, 19
writing style of, 175	evaluating notes, 141	Requirements, 19
user stories model, described, 101	writing research facts on,	Test, 19
user-interface designers, 56	140–141	Web 2.0, search pattern prior to, 137
users	wall space versus desk space,	website designed
finding, 130	111–112	importance, 48
types of, 126	war room, collocating teams in,	involvement, 48
	110–111	milestones, 48
V	waterfall projects	timeline, 48
•	acceptance criteria, 29	week, shape of, 109-110
validating visions, 164–165	versus agile projects, 10, 25	what?
value	approver, 21	addressing via research, 117
focusing on, 97–98	author, 21	asking, 66
process for specification of, 52	build step, 21	What if? question, answering, 157
value-stream mapping, 153	business analyst, 20	whiteboard, using, 112
van Bennekum Arie, 23	business owner, 20	why?
velocity of teams, considering, 194	change control process, 19	addressing via research, 117
vendor	contractual agreements, 30	asking, 66
products, 138	design step, 21	wireframe
relationship to customer, 30	designer's role, 19	designing in browser, 215
videoconferencing, 81	documentation, 20	for iterations, 205
vision	feasibility step, 21	wireframes/storyboards model,
creating, 36, 72	idea, 20	described, 101. See also
creating at start-up, 45–46	implement step, 21	moneysupermarket.com
defined, 120	information architect, 20	work environment. See agile project
getting feedback on, 164–165	locking down design variables, 19	environment
importance of, 39, 47	meaning of done, 19	work schedules, adjusting, 81
instilling business intentions into,	phases, 18	working software
120–121	product development at bank, 21	versus comprehensive
overlooking, 47	product development at bank, 21	documentation, 27-29
role in removing uncertainty, 66	project manager, 20	emphasis on, 33
validating, 164–165	QA (quality assurance) testing, 19	workshops, including in
vision of end point, creating, 33	reliance on documentation, 29	schedules, 109
visual designer	reviewer, 21	workspace. See agile project
described, 57	role of testing, 29	environment
role in waterfall projects, 20	sequential approach, 22	www.boo.com, 124
role on agile teams, 103	subject matter expert, 20	,
visual discovery tool, hot air	technical architect, 20	v
balloon, 285	test step, 21	X
visual models	user researcher, 20	XD (experience design) designers, 57
information design, 287	view of, 20–23	XP (Extreme Programming), criticism
prototyping, 293	visual designer, 20	of, 33
VOC (Voice of the Customer)	Waterfall System Development Life	
programmes, 247–248	•	Υ
von Hippel, Eric, 125	Cycle	YouTube, start of, 166
	Analysis, 19	
	Concept, 19 Design, 19	7
		Z
	Development, 19	Zuckerberg, Mark, 166
	Feasibility, 19	