Team

Essentials for AI Workbook

Enterprise Design Thinking



How to use your workbook

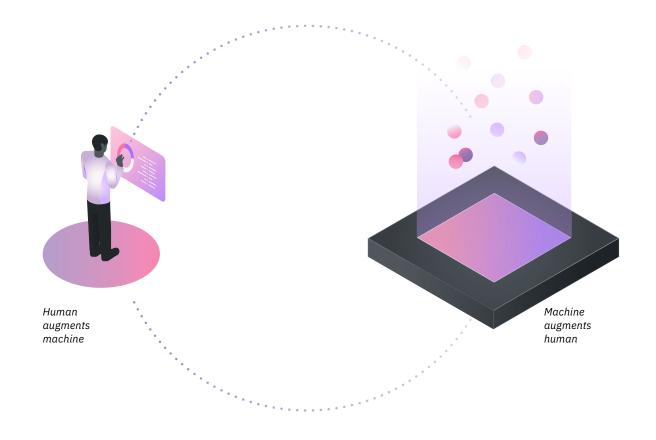
Think of this workbook as your journal. Paste in images of your process, take out pages, add new pages, duplicate pages, and draw in it. Keep it with you, always. This handbook should evolve as you design your AI experience.

[&]quot;You can use an eraser on the drafting table or a sledgehammer on the construction site."

⁻ Frank Lloyd Wright

A symbiotic relationship

Humans must augment the machine so the machine can augment the humans.



What are you trying to accomplish?

When in doubt, always design for people first and what they value.

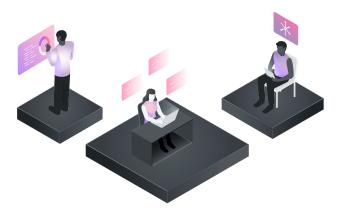
You're here because you have some level of interest in designing an AI experience.

artificial intelligence design

the purpose, planning, or intent behind simulated human thought processes

Why do we use AI?

To achieve higher quality outcomes faster than humanly possible



Let's get started

Add a sticky note
Describe the project you want to pursue.
Why do you think AI makes sense for this project?

Let's get started 04

Diverse Empowered Teams

Diverse teams see the same problem from many angles. They better understand any given situation and generate more ideas. Diverse teams solve problems more effectively.

Empowered teams are equipped with the expertise and authority to deliver outcomes without relying on others for leadership or technical support. By pushing operational decisions down to the lowest level, we give our teams the ability to achieve the rapid iteration our users and clients demand.



The Clearbridge team has a diverse team with people that can view a problem from many perspectives.



The Clearbridge team is empowered to make their own decisions.

Think about whom you need to lean on in order to design an AI experience. These people could be peers, stakeholders, executives, users, subject matter experts, etc.	Print more as needed
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Name:	
Job role:	
How could this person help?	
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	Are any roles missing on your team?
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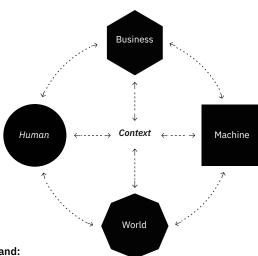
Do your research

Research is required to inform your decisions and strategy. To successfully design for AI, you must understand the machine. However, the machine (AI) is just 1 element within a larger system.

Assumptions and Questions

What assumptions and questions do you have about your project? These can be about your users, your business needs, your team, your stakeholders, your need for AI, etc. Visit the Enterprise Design Thinking Toolkit to learn how to run through this activity.

AI ecosystem



You must also understand:

- 1. your business needs and intent to drive the purpose of the machine
- 2. the needs of your users, which you can solve, and how you plan on solving them
- 3. the data you can use to train your machine

Assumptions and Questions

	High-risk
	Focus on the assumptions and questions that you are most uncertain about and pose the highest risk to the success of your project.
Certain	Uncertain
	Low-risk

Do your research 07

Assumptions and Questions

What research will you need to address the assumptions and questions?

Print more as needed

gh-risk to your project here.	ow will you validate your assumption or	How will you validate your assumption or uncover an answer to your question?	How will you validate your assumption or uncover an answer to your question?

Empathy Map

Empathy Maps help synthesize your team's collective knowledge about your user persona, bringing you closer to a common understanding of who they are. Reference the Enterprise Design Thinking Toolkit to learn how to run through the Empathy Map activity.

Says			Thinks
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Does			Feels
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Empathy Map 09

As-is pain points

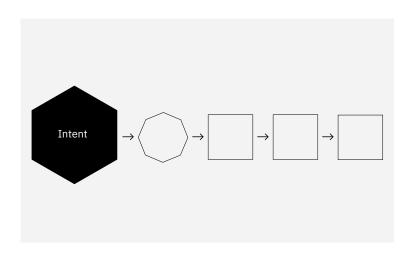
Reference the Enterprise Design Thinking Toolkit to learn how to develop an As-is Scenario Map. As you conduct research and gain insight into your users' experiences, document common pain points you uncover here. Add a sticky note Write down a pain point in your users' experience.

Print more as needed

As-is pain points 10

Define your intent

Align your team on the intersection between your business and user intents. This will help you determine why you would or wouldn't use AI in your effort.



What are you trying to accomplish for your users? Think about both the needs of your business and the needs of your users. What does success for both look like?

your users. What does success for both look like?

6 core AI intents

With AI, we enable our users to:

Accelerate research and discovery

Conduct rigorous, domainspecific research faster by using machine learning and AI to comb through your data and extract the information you find most important.



Enrich your interactions

Understand and communicate with customers and employees using natural language, responding to their needs with tailored dialogue and personalized experiences.



Anticipate and preempt disruptions

Monitor your systems and equipment at all times to identify and address potential issues before they become larger, more expensive problems.

Recommend with confidence

Make more confident, targeted recommendations using AI to evaluate a broad set of information based on an understanding of the parameters that are important to you.



Scale expertise and learning

Collect know-how from experts and combine it with the latest information from your industry to create a deep source of tribal knowledge that all employees can access on-demand.



Detect liabilities and mitigate risk

Use AI's understanding of the written word to identify risks to your company, particularly in terms of regulatory compliance.

Define your intent 11

Align on your intent

Add a sticky note Add a sticky note Write down the core AI intent you Write down the AI intent you came chose to help guide the AI intent for up with during the intent activity. your project. The intent activity will get you from a core AI intent to an AI intent you can move forward with. How would your users benefit from the intent above? Add a sticky note Add another core AI intent if it makes sense for your project. How would your business benefit from the intent above?

Align on your intent 12

Come up with big ideas

Reference the Enterprise Design Thinking Toolkit to learn how to come up with big ideas. Record a few of your ideas here. Then, document the idea you want to move forward with on the next page.

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Your big idea

Place your best idea here. You will refine this idea later.

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Write down the title and description	
of your best idea here.	

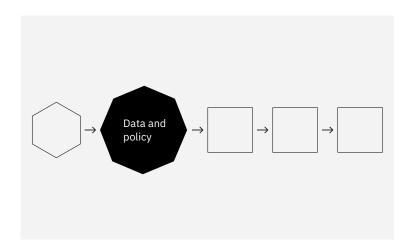
Add a sticky note

Place an illustration of your big idea

Your big idea 14

Identify your data

It's time to get specific about all the data sources at your disposal. Don't hold back as you think through any and all data that can be used to accomplish your intent.



Data is a critical part of the AI equation that often gets overlooked or minimized at an enormous cost. The process of getting usable data takes hard work, and requires hitting 2 big checkboxes: quantity and quality.

Data takes many forms, like system logs, multimedia, and weather conditions. For the sake of brainstorming, think of the data your AI will need through 3 lenses: publicly accessible data, private data, and user-specific data.

Public data

Public data can be found in the world (publicly or for purchase). For example, census data is free and highly accessible. Anyone can go download those spreadsheets. Even social media hashtags, likes, and comments are public data. Sometimes, free public data isn't enough. Businesses regularly purchase additional demographic data for user segmentation.

Private data

Private data is owned and held by your business and often provides a competitive advantage. For example, this can take the form of employee records, hardware assets, deliveries, and payroll.

User data

Finally, user data is held directly by end users. Think contact information, medical history, or geographic location. Because these belong to the user, businesses must ask for access to store and/or use the data.

Find your data scientist

Data scientists are experts in managing large volumes of structured and unstructured data. They are responsible for building, maintaining, and monitoring the models that will interpret the data.

Identify your data 15

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Document any and all data you have that you need to accomplish your intent.

Print more as needed

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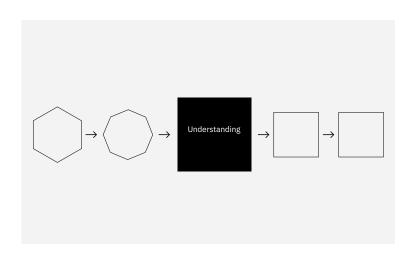
Document any and all data you don't have that you'll need to accomplish your intent.

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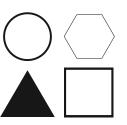
Help your AI understand

Think of your AI as a digital toddler. Toddlers are mostly blank slates and must be taught a lot before they can go out and become craftsmen, experts, or artisans.

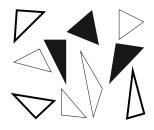


You will have to teach your AI the ins and outs of your domain by training it on the data that you have. Over time, it will begin to learn jargon, trends, and patterns in the data that it will use going forward.

AI models are taught—not explicitly programmed. In other words, instead of spelling out specific rules to solve a problem, we give them examples of what they will encounter in the real world and let them find the patterns themselves.



To illustrate the difference between rule-based and machine learning, imagine 2 ways of explaining triangles to someone who has never seen them. One way to do it is to explain the rules ahead of time, e.g. a 3-sided shape is always a triangle.



Alternatively, you can put thousands of triangles in front of someone and let them find the overlapping characteristics that define a triangle.

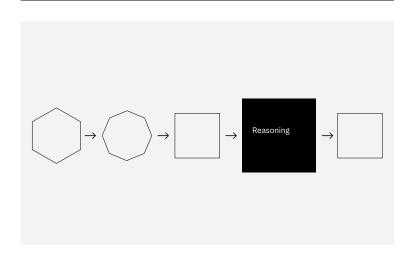
Enabling machines to find patterns is better than spelling out the instructions when the instructions are hard, unknown, or when the data has many different variables. Think about treating cancer or predicting the stock market.

The goal of the understanding activity is about determining what to train AI on so it can find the right patterns and connections.

Help your AI understand 18

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Add a sticky note Place a data source you here. Break it down. We jargon, or concepts with need to gain context a understand your domain.	Vhat variables, ill your model and begin to	-	
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Finding meaning through resasoning



The goal here is to revisit your big ideas and bring them down to earth. Seeing your ideas in the context of what's feasible is crucial in getting to those actionable steps as you deliver on your AI experience.

Machine learning is all about how your system will reach conclusions from its understanding of the data it ingests. This is the part where the rubber really hits the road.



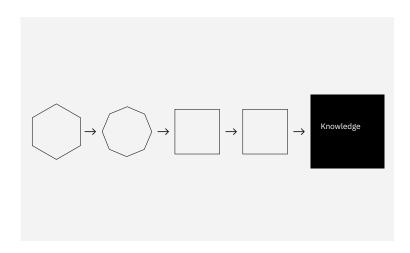
Ensure all ideas are grounded in reality, and scale them back if needed. Re-envision, edit, and tinker with your big idea(s) if necessary. Make sure that you finish with a reasoning statement that can serve as a blueprint for your team moving forward. This is especially useful to keep you

focused in the future as you scale the service or produc). Think about any assumptions you might've made in the workshop. Make sure you validate your assumptions. Follow up on any extra information you need.

How will you maintain your intent as your AI evolves over time?				

My original big idea	Add a sticky note	
	Place your original big idea here.	Reasoning statement structure:
		[Business] can [intent] by [big idea] based on [the AI's data and understanding].
		My reasoning statement:
My refined big idea	Add a sticky note	Add a sticky note
My refined big idea	Add a sticky note Place your refined big idea here.	Add a sticky note Write down your reasoning ← statement here.
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Analyze what your AI will know



So, you've scoped your big idea(s), using your conclusions from the data, understanding, and reasoning activities. What are the implications of everything you've discovered?

When we say implications, we mean you should think beyond the primary purpose of your product. Think about the ripple effects you and your team are accountable for.

Your goal is to design a healthy relationship between your AI and your users. It should endure over time, as needs and values change. The value of AI isn't a short term solution; it's a commitment to a long term relationship with your users.

Your job is to keep your users empowered, and that starts with understanding every way the relationship could be undermined, by accident or by design.

How do the implications or potential negative effects of your AI change how or if you move forward?				
How could you eliminate or mitigate these negative effects right now?				
Incorporate the reflection you did here into every decision you make moving forward. Set up time to check in with your team to leverage or create tactical safeguards	honest conversations about the repercussions of your decisions.			

and checkpoints. have open and

Secondary effects Primary effects Tertiary effects The intended value of your AI to Any unintended benefit that your AI The unintended consequences of your AI that could negatively impact your business and users gives to your business or users your business or users

Effects 23

Develop a future experience

Reference the Enterprise Design Thinking Toolkit to learn how to create a Storyboard. Document it below.

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Draw the experience your user will go		
Draw the experience your user will go through, and add a brief description.		
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Notes	

Next steps

Place your reasoning statement and Storyboard big and bold in a place where every person with a stake in this project can see it.

As you start to make your plan a reality, reference this workbook often. Allow it to evolve. We know you'll design a great humancentered AI experience.