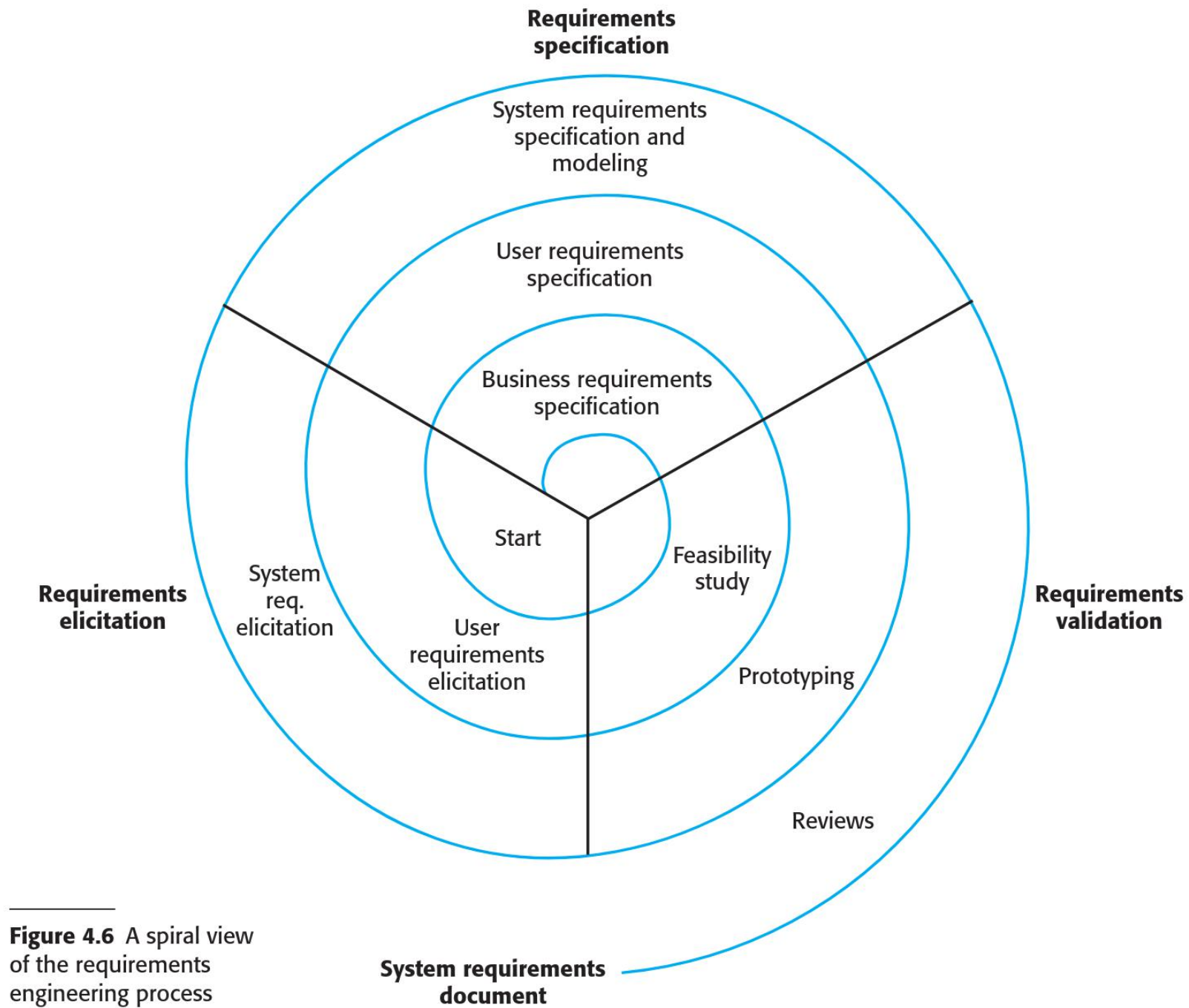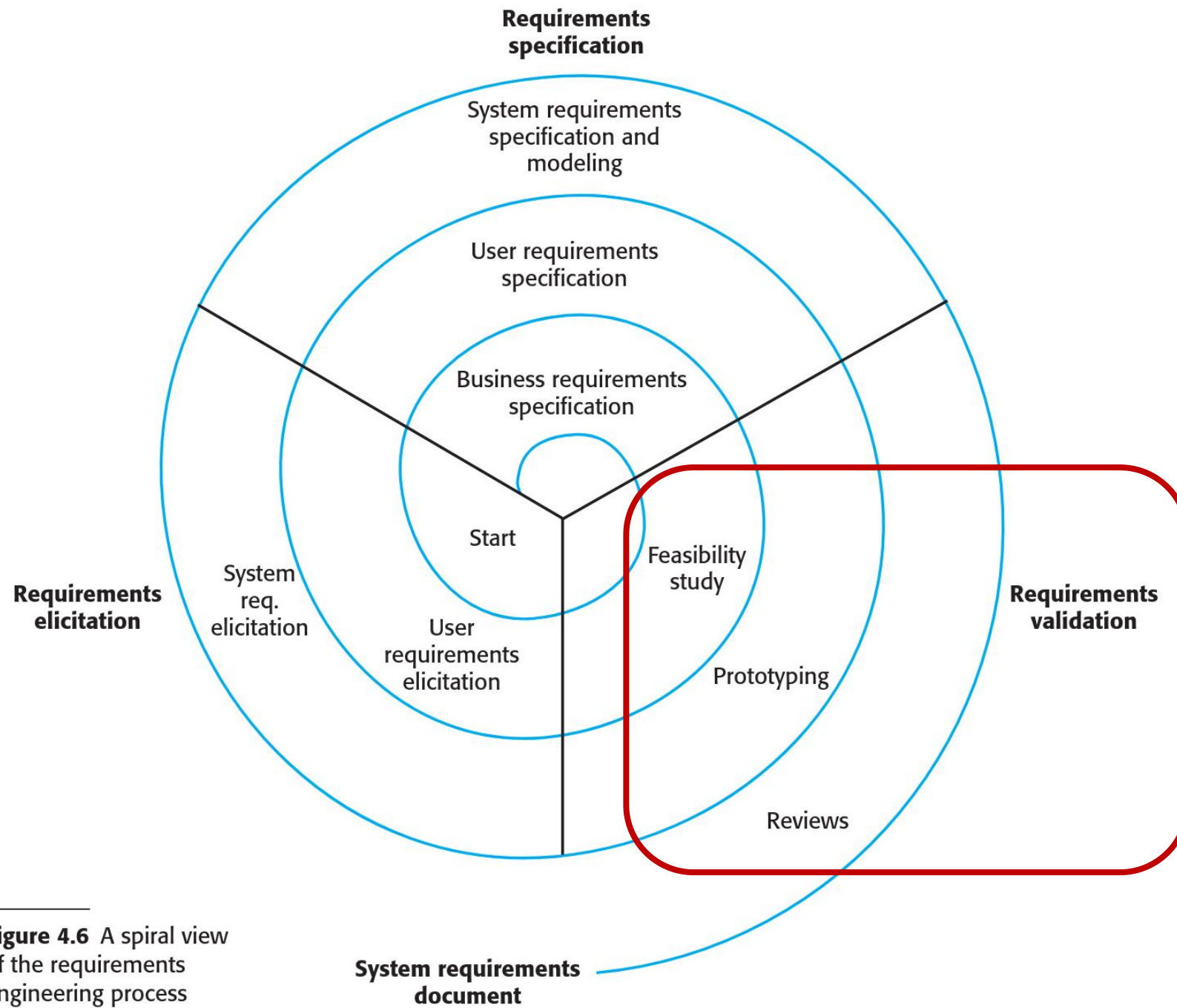# Requirements Validation

Today's Agenda

- How do we validate requirements?

- Proof of concept

- Storyboarding

- Prototype

- Minimum Viable Product

Requirements
specification

System requirements
specification and
modeling

User requirements
specification

Business requirements
specification

Start

Feasibility
study

Requirements
validation

Requirements
elicitation

System
req.
elicitation

User
requirements
elicitation

Prototyping

Reviews

Figure 4.6 A spiral view
of the requirements
engineering process

System requirements
document

3

Figure 4.6 A spiral view of the requirements engineering process

When do we validate requirements?

When do we validate requirements?

for

New Software

When do we validate requirements?

for

New Software

Existing Software,
New Features

Why do we validate requirements?

for

New Software

Existing Software,
New Features

Why do we validate requirements?

for

New Software

Existing Software,
New Features

to assess

Technical Feasibility

Why do we validate requirements?
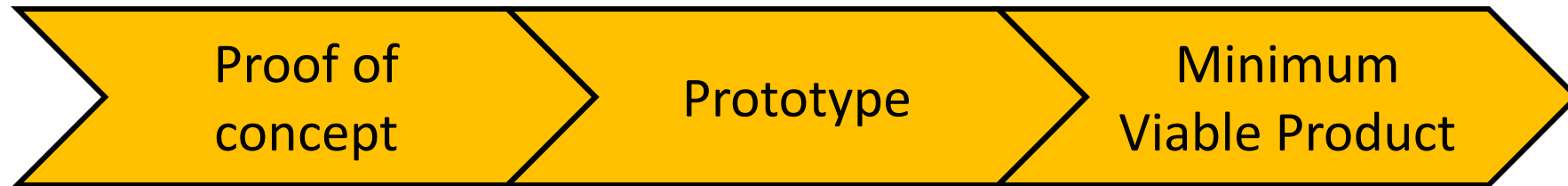
for

New Software
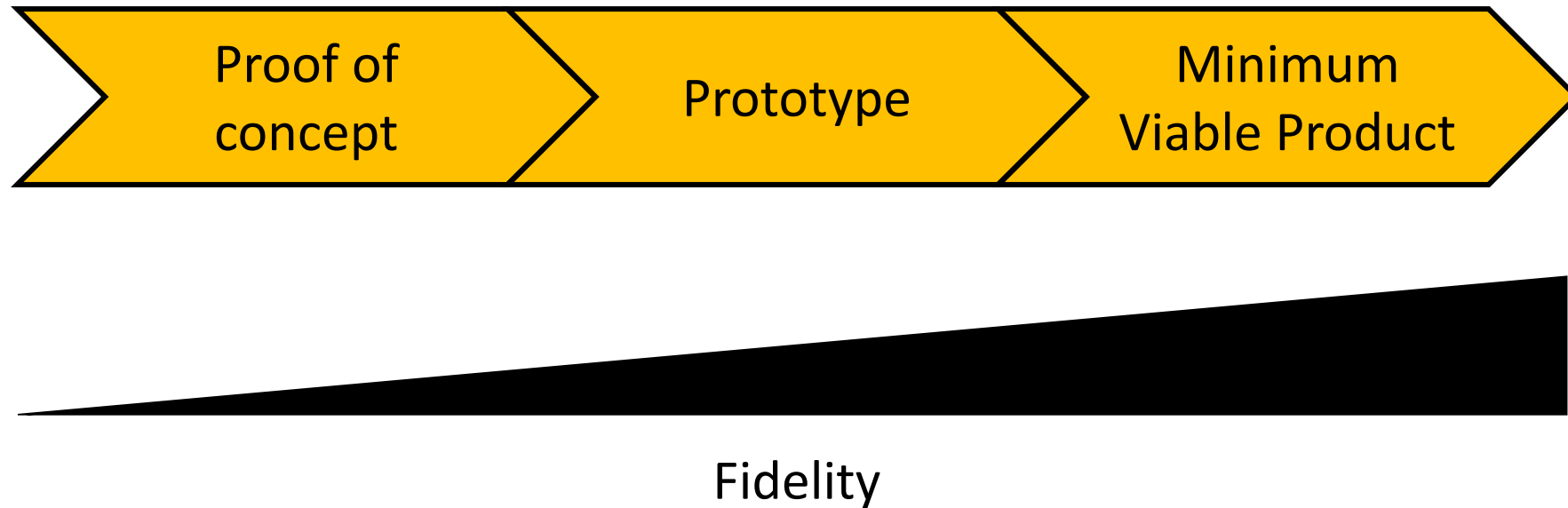
Existing Software,
New Features

to assess

Technical Feasibility

Market Feasibility

How do we validate requirements?

How do we validate requirements?

Proof of concept → Prototype → Minimum Viable Product

Fidelity

Proof of Concept

Proof of Concept

Proof of Concept

Proof of Concept

Technical Feasibility

is that even possible?

Proof of Concept

Technical Feasibility

Market Feasibility

does anybody want this?

Proof of Concept

Technical Feasibility ➡️ Just implement the core algorithm

Proof of Concept

Technical Feasibility ➡ Just implement the core algorithm

Market Feasibility ➡ Make a pitch with a fake UI, see if anybody wants to buy

Proof of Concept

Technical Feasibility → Just implement the core algorithm

Some robotics paper on fine motor skills

Market Feasibility → Make a pitch with a fake UI, see if anybody wants to buy

Proof of Concept

Technical Feasibility → Just implement the core algorithm

Some robotics paper on fine motor skills

Market Feasibility → Make a pitch with a fake UI, see if anybody wants to buy

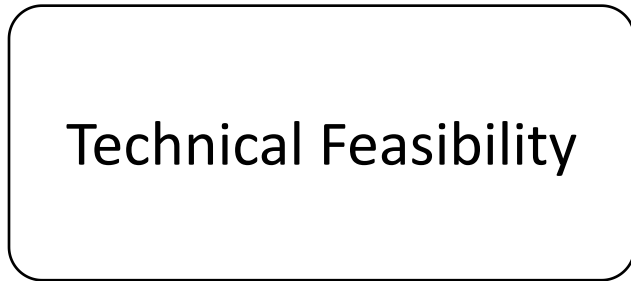Scrumpy is rich and asked for the robot specifically, so we're good

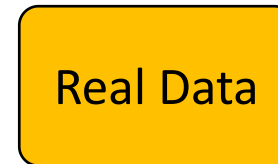# Prototype

Prototype

Technical Feasibility

➡️ Build enough so the user can experience the core algorithm

Prototype

Technical Feasibility

→ Build enough so the user can experience the core algorithm

Rough UI   Real Data
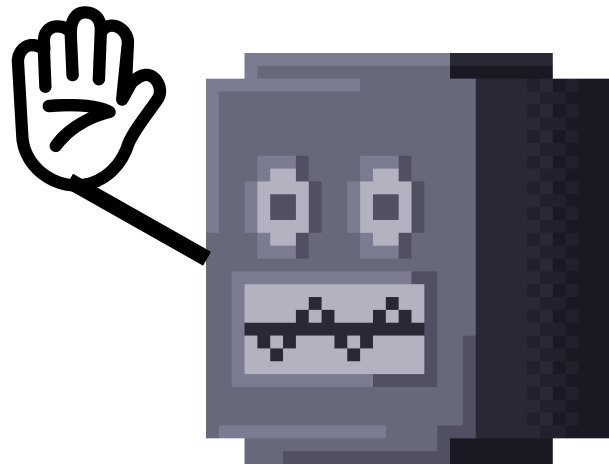
Prototype

Technical Feasibility ➡️ Build enough so the user can experience the core algorithm
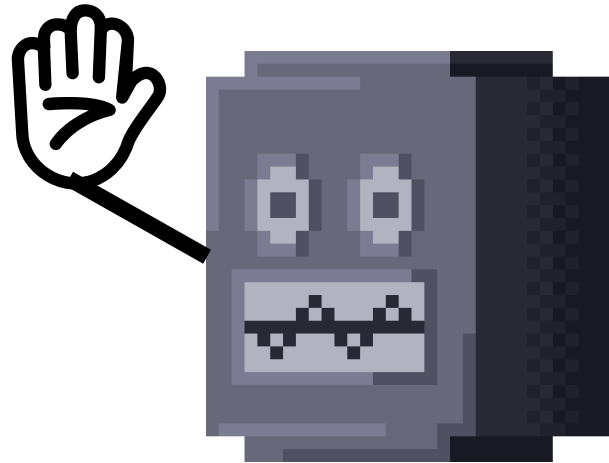
Market Feasibility ➡️ Let the user try it out, get feedback
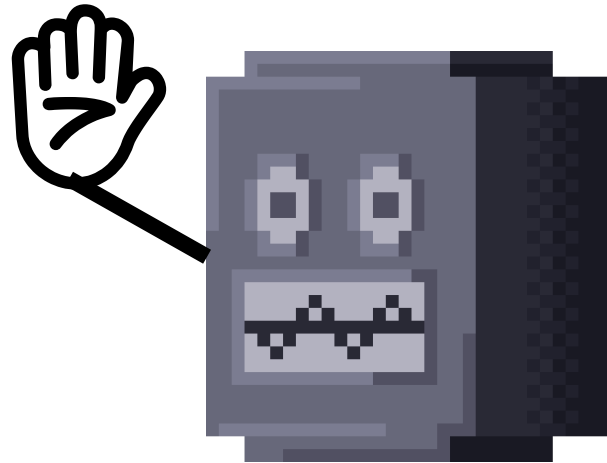
Prototype

Prototype

I wanted a smoother petting

Prototype

The joints make noise and it's distracting
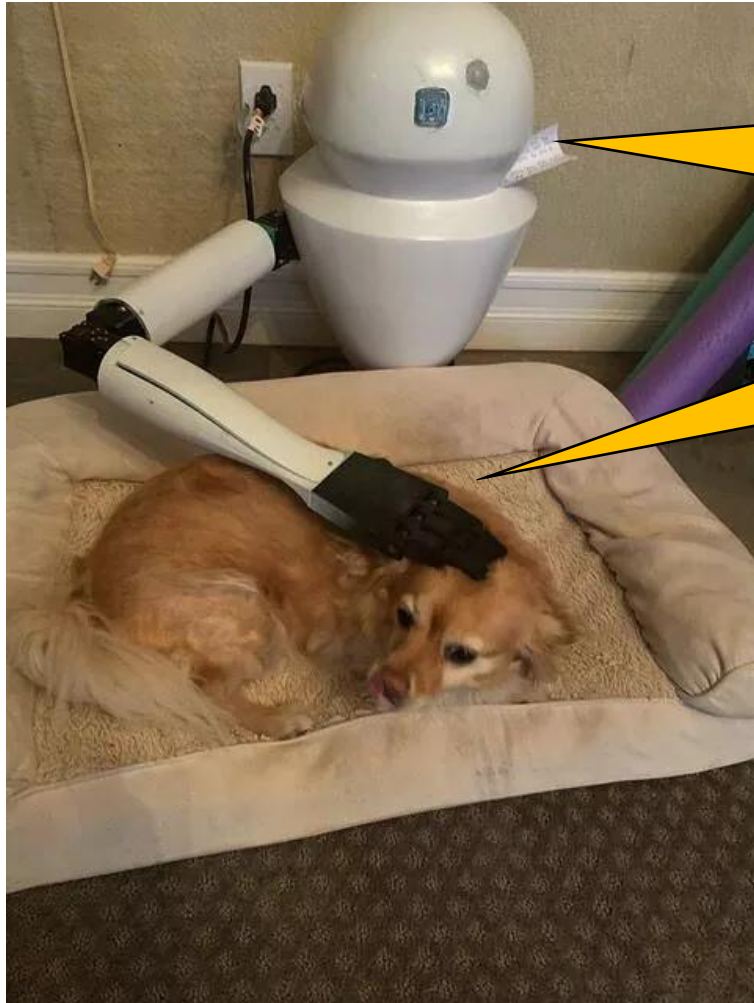
Minimum Viable Product

Minimum Viable Product

- Throw out prototype, keep only your learnings

Minimum Viable Product

- Throw out prototype, keep only your learnings

- Build out the core of the final software product

Minimum Viable Product

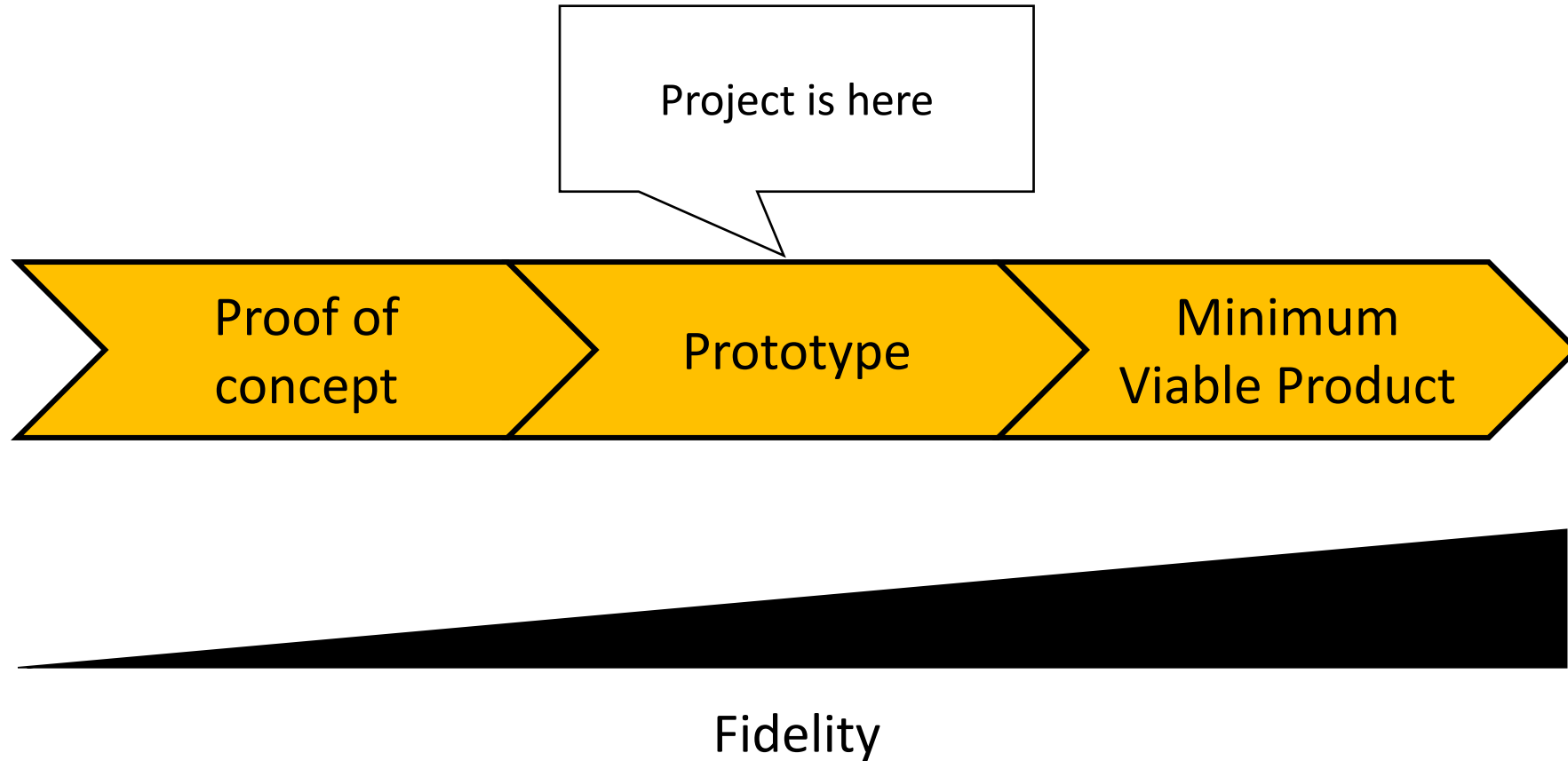
Polished UI

Fully functional

Minimum Viable Product

Minimum Viable Product

How do we validate requirements?

How do we validate requirements?