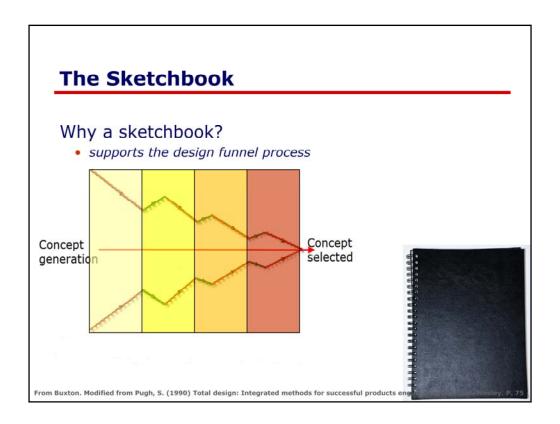


The sketchbook is a basic tool in almost all design disciplines



To set the scene, remember the design funnel.

First, each stage is iterative, where one constantly generates and reduces ideas until resolution

Second, the granularity of exploration and development is finer as these iterations progress.

Fundamentally, the sketchbook is a tool that supports this design funnel process, by cheaply and quickly collecting a multitude of ideas and their variations, and recording them for later choice.

The Sketchbook

Why a sketchbook?

- brainstorm many initial ideas both good and bad
- explore & refine ideas both in the large and in the small
- develop variations, alternatives, details
- · archive your ideas for later review
- reflect on changing thought processes over time
- · communicate ideas to others by showing
- choose ones worth developing
- record good ideas you see elsewhere
- clip inspiring images from sources like magazines
- shoot, print and collect inspiring photos



Specifically, this is what a sketchbook affords

Best practices

Use your sketchbook regularly

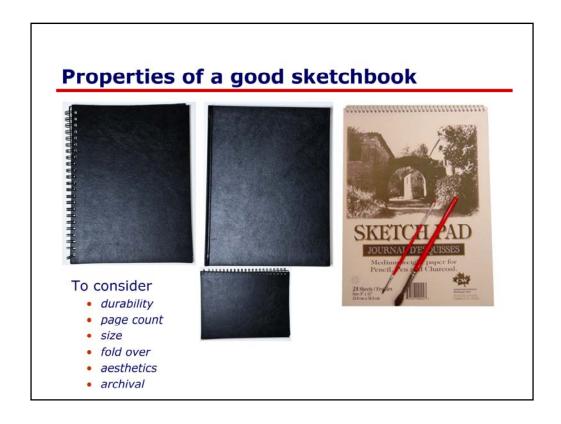
- sketch anywhere, anytime, frequently
- · only works if you carry it with you



From //momswhomakestuff.com NOTE: Get a new image

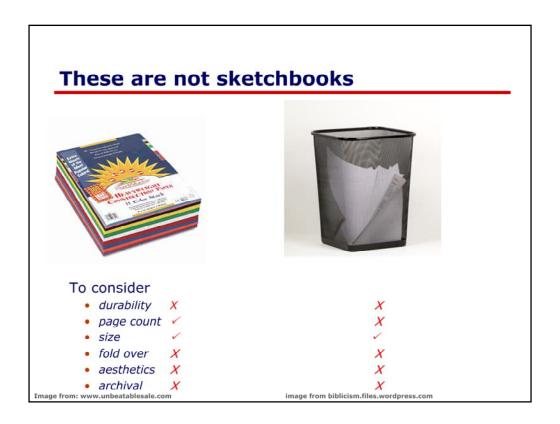
Sketchbooks are of little use if you don't have it with you and you don't use it.

A sketchbook is really about getting into the idea of design, into the habit of sketching regularly and frequently.



Sketchbooks vary considerably. Some things you need to consider are:

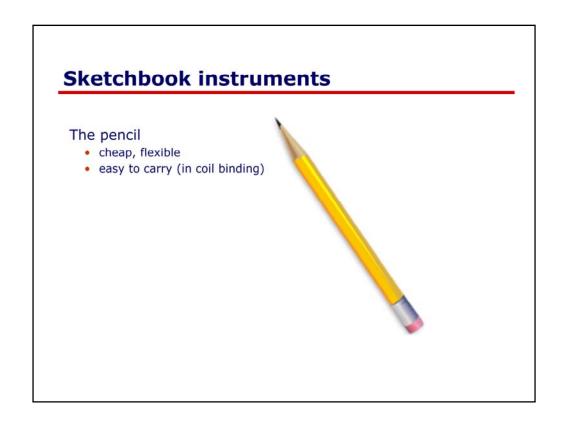
- -Durability covers, page bindings (so they last)
- -Page count (so you can fill them)
- -Size (for carrying convenience)
- -Whether you can fold them over (for ease of use in tight spaces)
- -Physical and visual aesthetics (you should be proud to carry it; a badge of your profession



While you can sketch on almost anything, the sketch doesn't make a sketchbook.

Avoid cheap scrap books and exercise books, and bits of paper.

But of course, you can sketch on these and then paste it into your sketchbook.



The most basic instrument you need is a pencil, maybe an eraser. The key is to carry it with you always, maybe by inserting into the coil binding of your sketchobook.



The most basic instrument you need is a pencil, maybe an eraser. The key is to carry it with you always, maybe by inserting into the coil binding of your sketchobook.

Sketchbook instruments Tape, scissors and glue • for cutting and pasting in found objects • don't have to carry it with you

Later, we will talk about how you can use a sketchbook to collect found objects, like magazine clippings.

Scissors, glue, and tape will let you easily add these to your sketchbook

Sketchbook instruments

Small camera

- for taking photos of interesting ideas
- select, print and tape photos into your sketchbook



Every now and then you will come across something that inspires an idea. Take a photo of it, print it, and paste it into your sketchbook.



Of course, there are myriads of media. Feel free to use them, but be careful. Remember, sketches should be cheap, fast, easy to do, and often of low fidelity.

If media gets in the way of this, go back to a pencil.

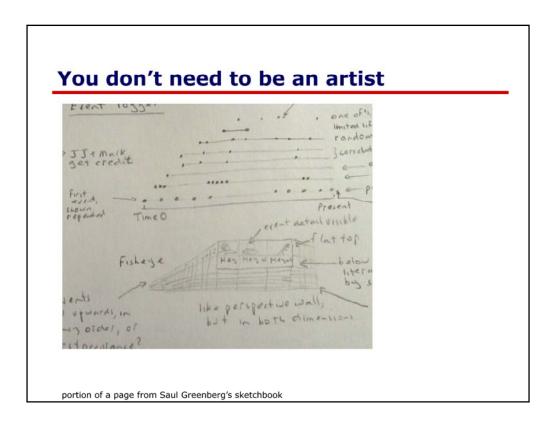
Filling your sketchbook



So, now that you have a sketchbook and some instruments, what should be in your sketchbook?

The following illustrate some samples.

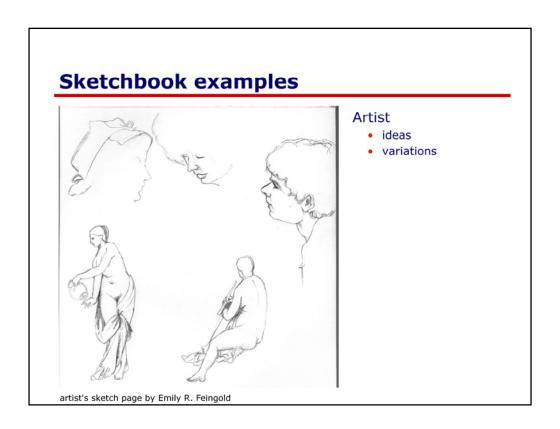
We will get into these and others in considerably more detail in later talks.



Sketching is about generating and collecting ideas.

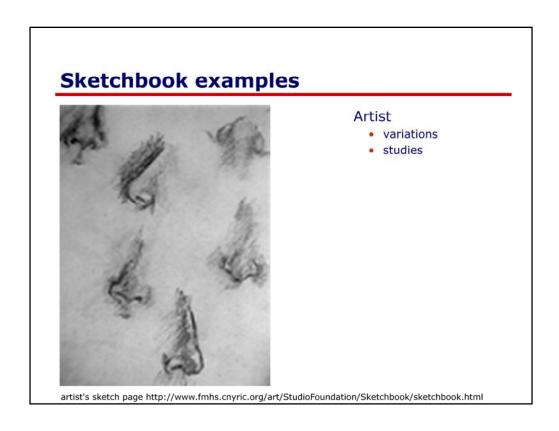
If you can draw, great.

But an ugly, crude drawing can capture an idea as well as a beautiful one.

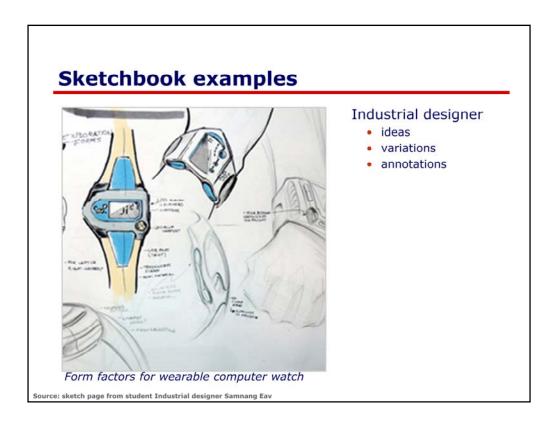


Lets look at a few examples of sketchbooks from various fields, where we see how they support idea generation, variation, and ultimately choice.

In this example, we see various sketches, where the artist is exploring and varying posture and form. Note how incomplete some of them are, where they let the mind's eye fill in possible details



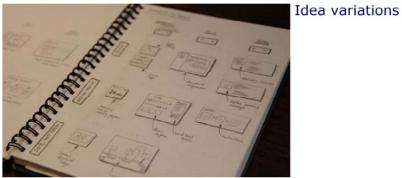
Artists also do variations of a form, as studies that help them understand the nuances of that form



Industrial designers make fairly similar uses of sketches, in this case in exploring various ideas and details of a form factor.

Note that sketches such as these can include textual annotations, which themselves suggest possibilities

Sketchbook examples

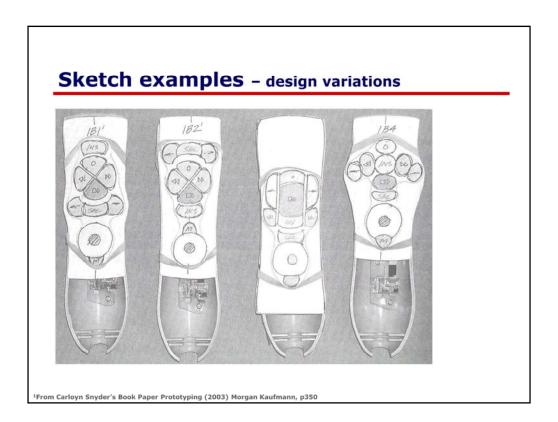


Four different versions of an idea

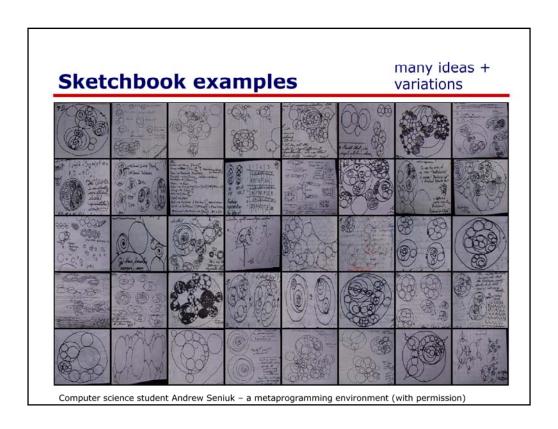
Source: Nicolai Marquardt sketchbook, with permission, See http://www.nicolaimarquardt.com/bloq

Sketches serve many purposes.

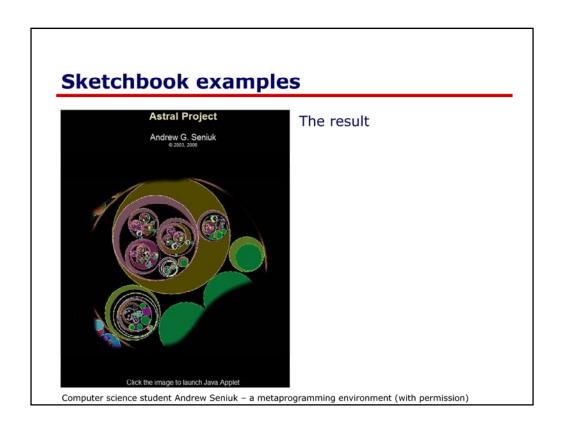
This one collects four different versions of an idea



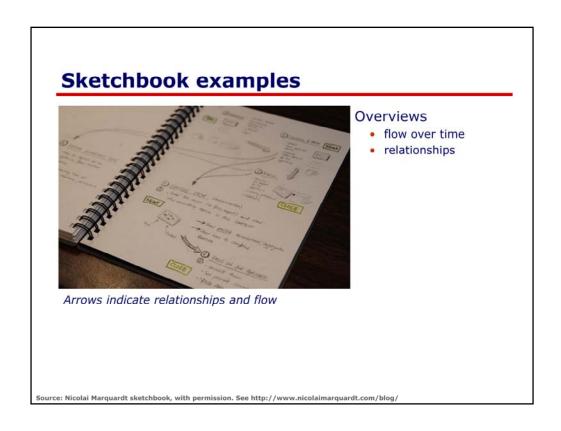
This example – in this case a photo – shows of 4 different remote control designs, where the sketches are made from paper taped on top of the lower part of a remote control.



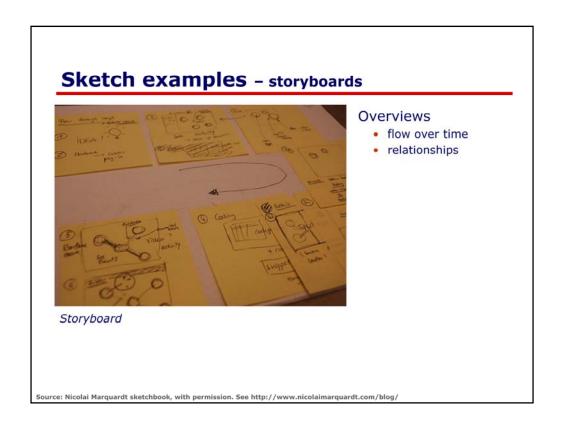
The key idea is to have many ideas, and many variations. Paper and pen is cheap and quick. Explore.



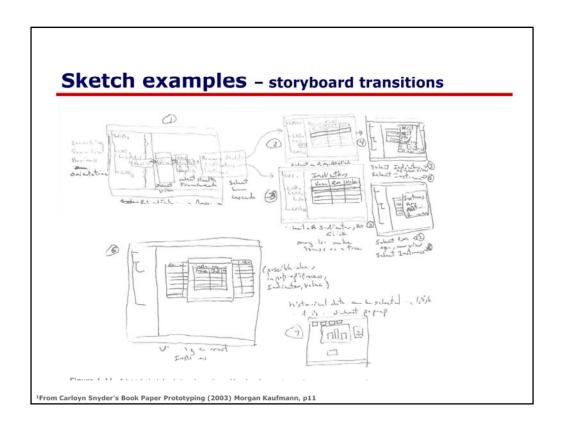
When you really understand the design space and the choices available, you can then proceed to build the product



While this one shows how an idea flows over time, and the relationships between different parts of the idea

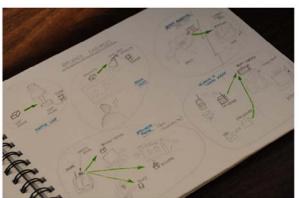


Sketches can also be storyboards, where key scenes are shown (much like a comic book)



Sketches can show storyboard transitions, where a different action can result in a different flow of activities





Five envisaged scenarios of a technology in action

Scenarios

stories of envisaged uses

Source: Nicolai Marquardt sketchbook, with permission. See http://www.nicolaimarquardt.com/blog/

Sketches can also depict how an idea (or product) is used via visual scenarios, or stories





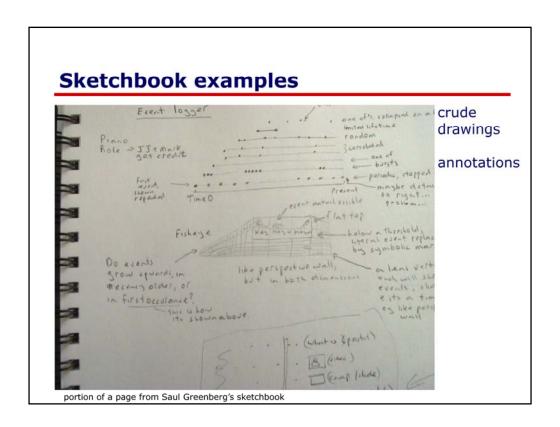
Collecting

 materials related to an idea

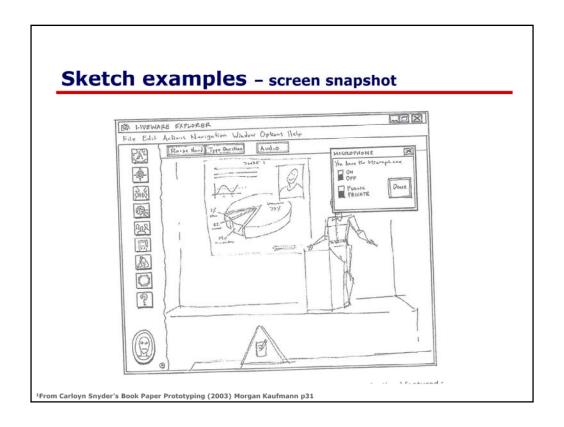
Information visualization techniques - from magazines

Source: Nicolai Marquardt sketchbook, with permission. See http://www.nicolaimarquardt.com/blog/

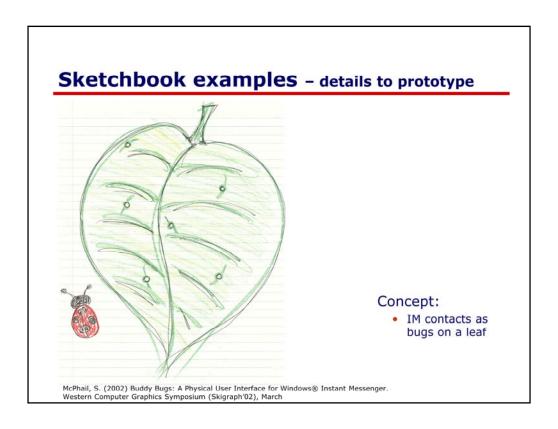
Sketches can be used for collecting materials seen or found in other places; these can inspire you as well. Indeed, much creativity is about finding, varying, and remixing ideas that already exist



Sketches vary significantly. This one is of very low fidelity (i.e., a crude drawing) and is heavily annotated

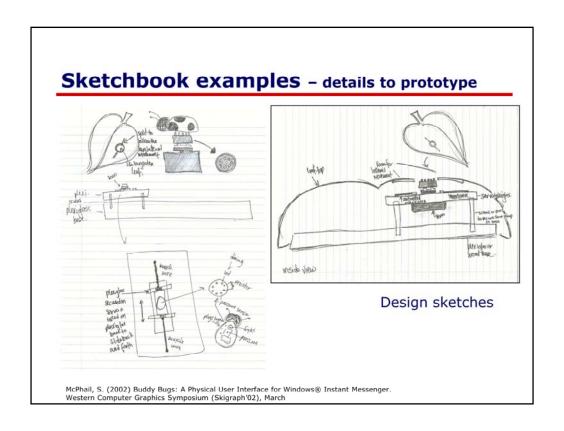


While this one is almost a literal and highly detailed representation of what would expect a screen to look like at a moment in time.

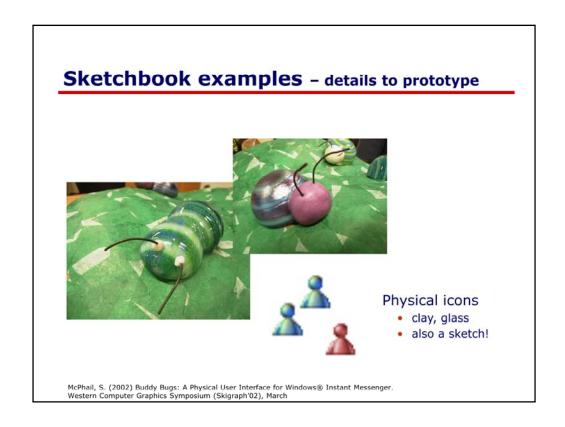


Here is an example of a sketch generated by Susanna McPhail, who was developing an idea for a physically based instant messenger system.

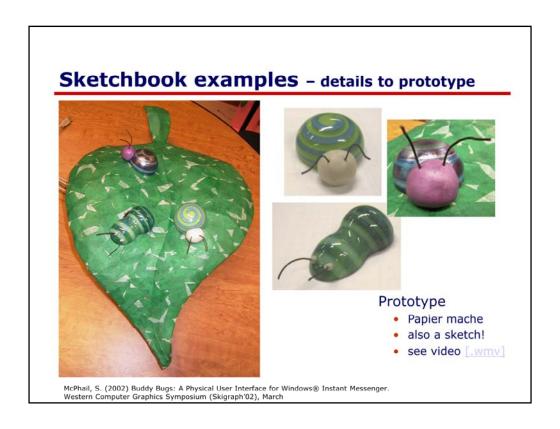
Her concept was bugs (each representing one of her IM contacts) on a leaf, that would somehow light up and animate. This is one of her first sketches.



As she began to refine her idea, she started adding detail about how it could operate.



She then built the leaf out of papier mache, glass forms, clay, and wire – this is also a sketch!



Her final system – now a fully working prototype – shows the clear relation of her original sketch idea to the implemented system.

You now know

Sketchbooks are for:

- brainstorming, exploring, refining varying, archiving, reflecting, communicating and choosing ideas
- recording good ideas you see elsewhere

Sketchbooks are:

· convenient (pages, size, fold over), durable archive, aesthetic

Sketchbook instruments are:

- pencil
- optional eraser, sharpener, glue, tape, scissors, camera, and other media

Sketchbooks can be filled with:

· Your sketches (many different kinds) and found objects

Sketchbooks are used regularly

· sketch anywhere, anytime