## Designing Flexible Curricula

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## Designing Flexible Curricula

Change as a constant

Obstacles to flexibility

Process of curricular change

Objectives versus tactics

Types of content knowledge

Pedagogical assumptions

Flexible frameworks

## Change as a constant in design:

Increasing complexity in the scale of contemporary problems

Escalating demand
 for interdisciplinary collaboration

Accelerating pace of technological evolution

Growing participation
 by users in the development of content and form

Expanding accountability for predicting the outcomes of design action

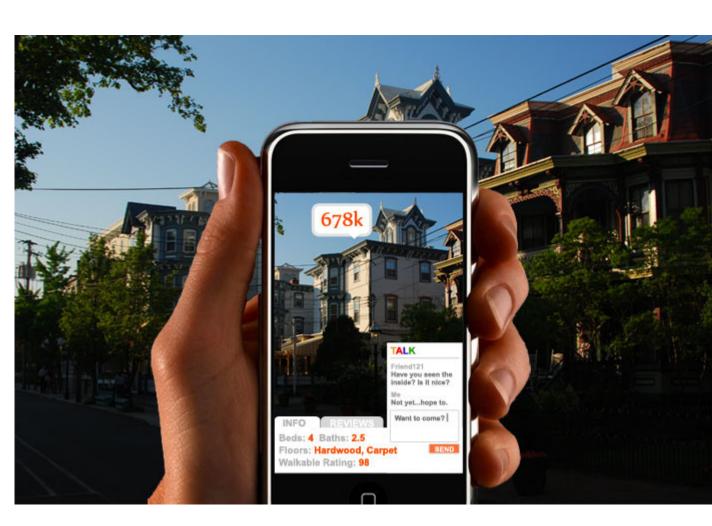
#### • Escalating demand for interdisciplinary collaboration





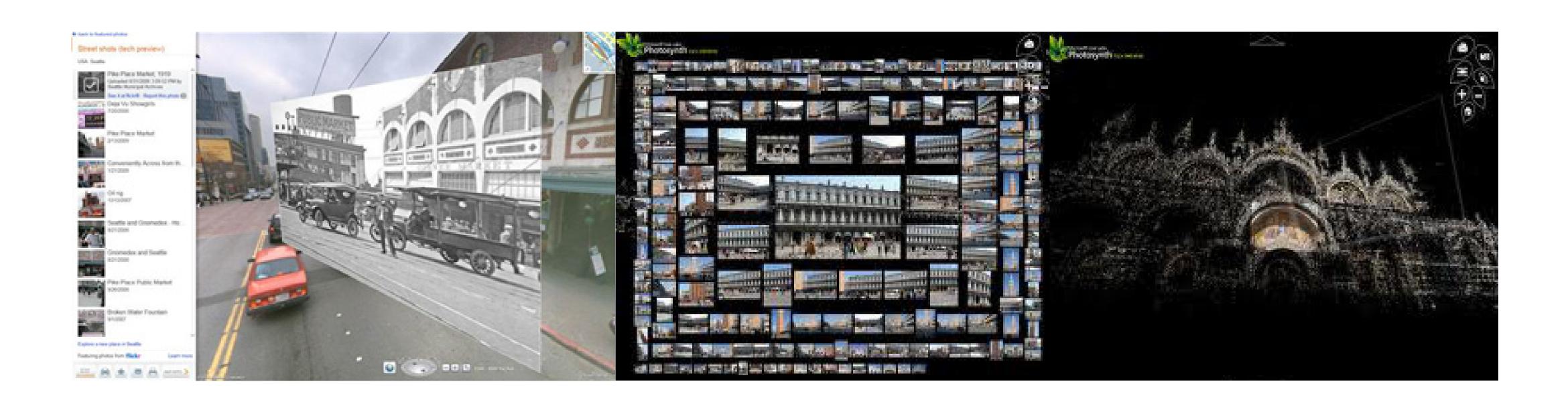


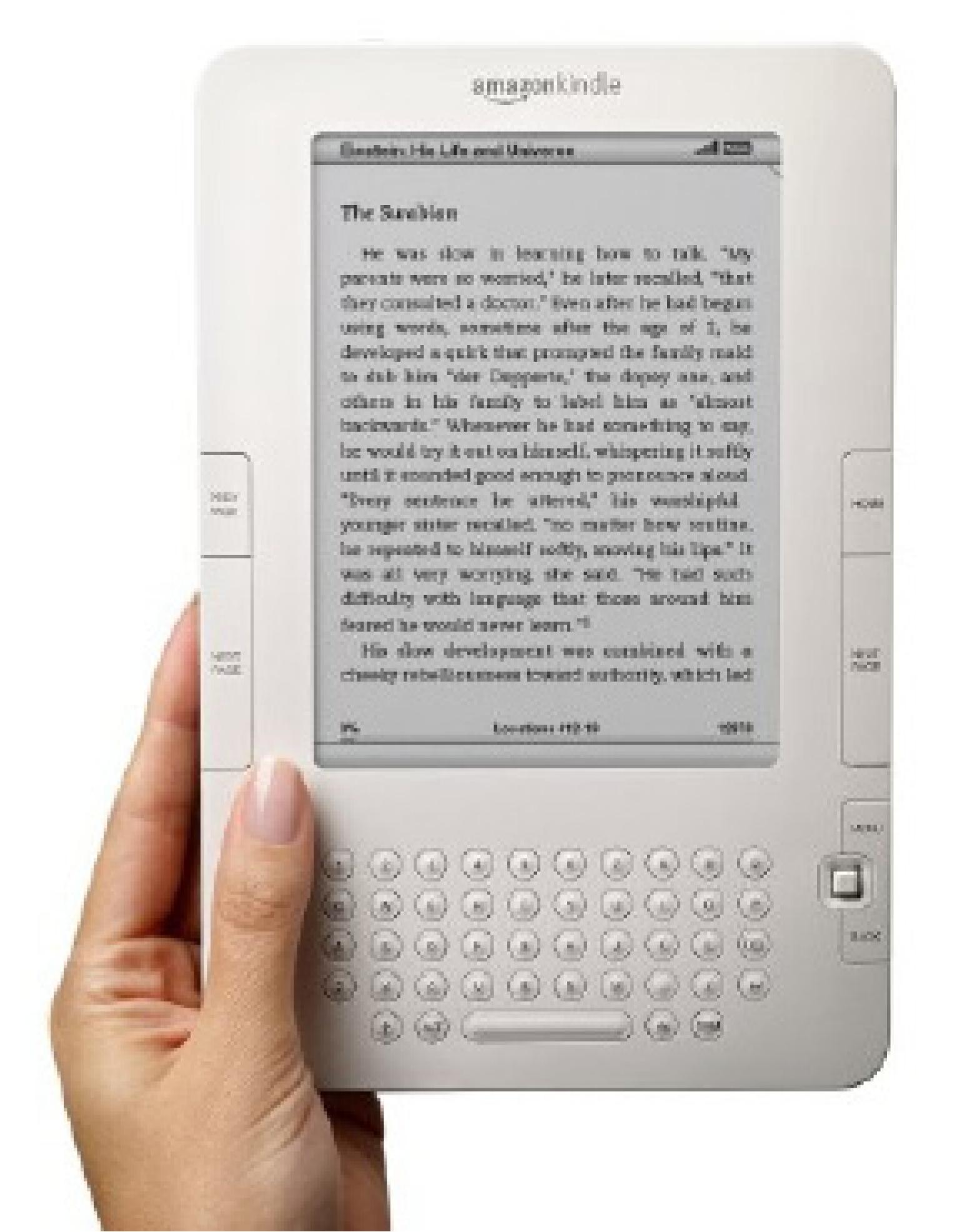




#### Accelerating pace of technological evolution

email	1976
world wide web	1991
google search	1997
iPod	2001
augmented reality	2008





Growing participation by users in the development of content and form



#### Expanding accountability for predicting the outcomes of design action

81%	Design professionals say research is integral to their practice and
	that they engage in it regularly

- 69% College design department chairs say it is required of faculty and critical to the mission of the institution
- 70% Design professionals don't use students in research that is important to their practices
- 80% Professionals, faculty, and students cited sustainability as the most important area for design research, yet they ranked systems theory at the bottom of all possible topics

2005 Metropolis Magazine of 1051 design professionals, faculty, and students

## Obstacles to flexibility:

- Slow academic approval processes / rapidly shifting profession
- Decreasing budgets / expanding enrollments
- Curriculum-by-accrual strategies
- Marketing incentives for increasing curricular specialization
- Cult-of-personality teaching / lack of real consensus on content
- Faculty specialization and ownership of courses
- Overly rigid adherence to traditional scheduling and staffing
- Misperceptions of curricular mandates

## Obstacles to flexibility

#### Usually result in:

Overly prescriptive curricula or a freefor-all with no accountability to common objectives and outcomes

Declining program relevance under a constantly changing context

Faculty frustration in no opportunities for innovation and too much to teach in too little time

Reduced effectiveness in arguing for change with administration

When what we really want:

Curricula that are customizable and broadly supported by faculty

Curricula that are agile, continually responsive, and anticipatory of change

Curricula that are open to individual contributions and manageable in scope and scale

Convincing rationales for change that respect institutional context / resources

## Process of curricular change

Projection →	Planning →	Delivery →	Assessment
analysis of strategic environment, both professional and institutional	collective activity of the faculty in authoring a curricular plan	implementation of a plan across a specific period of time	critical evaluation of outcomes with respect to projections, plans, and delivery
national benchmarks consultation/peers advice/professionals trend analysis institutional priorities	mission, goals, objectives learning outcomes measures/evidence resource assessment management structure implementation strategy	admissions criteria content knowledge curricular structure pedagogical frameworks faculty assignments	student evaluations exit interviews alumni surveys accreditation reviews employer feedback

### Scales at which curriculum is built

Mission:	the big vision
Goals:	the 3-5 year priorities for the program
Objectives:	what students should know and be able to do, stated in terms of observable, measurable behaviors
Learning outcomes:	how good is good enough and by when it should be achieved
Measures/evidence:	illustrates the achievement of outcomes
Strategies:	courses and pedagogies through which students achieve outcomes
Tactics:	projects and lessons

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## For example...

Mission:	To prepare undergraduates for entry to the profession of graphic design.	
Goal:	To transition over the next two years from strategies that focus on the design of discrete objects to systems-level thinking that situates design between people and what they want to do in diverse contexts.	

## For example...

**Objective:** Students will frame design investigations

and critique solutions in terms that address

the social, cultural and technological

aspects of context and the physical and

cognitive behaviors of people.

**Learning outcome:** By the sophomore year, all students will

be able to identify and describe relevant

relationships among objects, people, and

settings.

Measure/evidence: Students in GD 201 will construct concept

maps and develop semester projects within

specific territories of the map.

# Write a course objective, learning outcome, and desription of evidence for one of the following:

A typography course that anticipates the next iteration of mobile technology after the iPad.

A foundation studio course that prepares students to frame problems.

A studio course based on the design of tools and systems for collaboration.

Objective:
Lagraina autcama.
Learning outcome:
Measures:
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***************************************

Choose a course from your current curriculum and distribute its content under the following categories:

Things seen, heard, read, or othewise encountered:
Skills, theories, and concepts:
Sixilis, theories, and contests:
Understanding:

Choose a course from your current curriculum and distribute its content under the following categories:

Things seen, heard, read, or othewise encountered:	
	• • • • •
	• • • • •
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Skills, theories, and concepts:	• • • • •
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Understanding:	• • • • •
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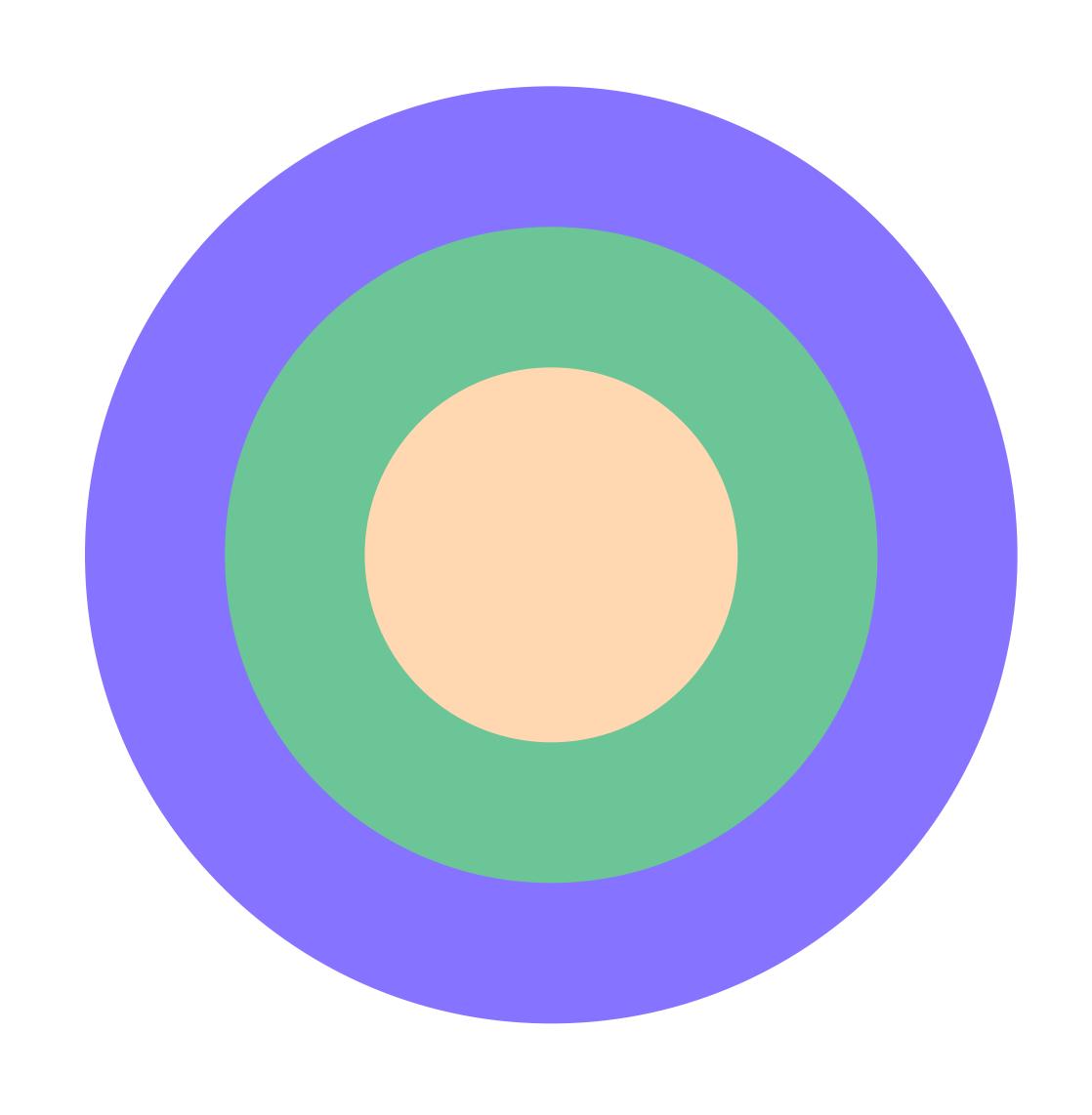
Choose a co	ourse from your
current cur	riculum and
distribute i	ts content
under the f	ollowing
categories:	

	LYUI	
_	<b>EXPI</b>	_ <i>-</i> /-\

- INTERPRET
- A APPLY
- P PERSPECTIVE
- K KNOW WHAT THEY DON'T KNOW

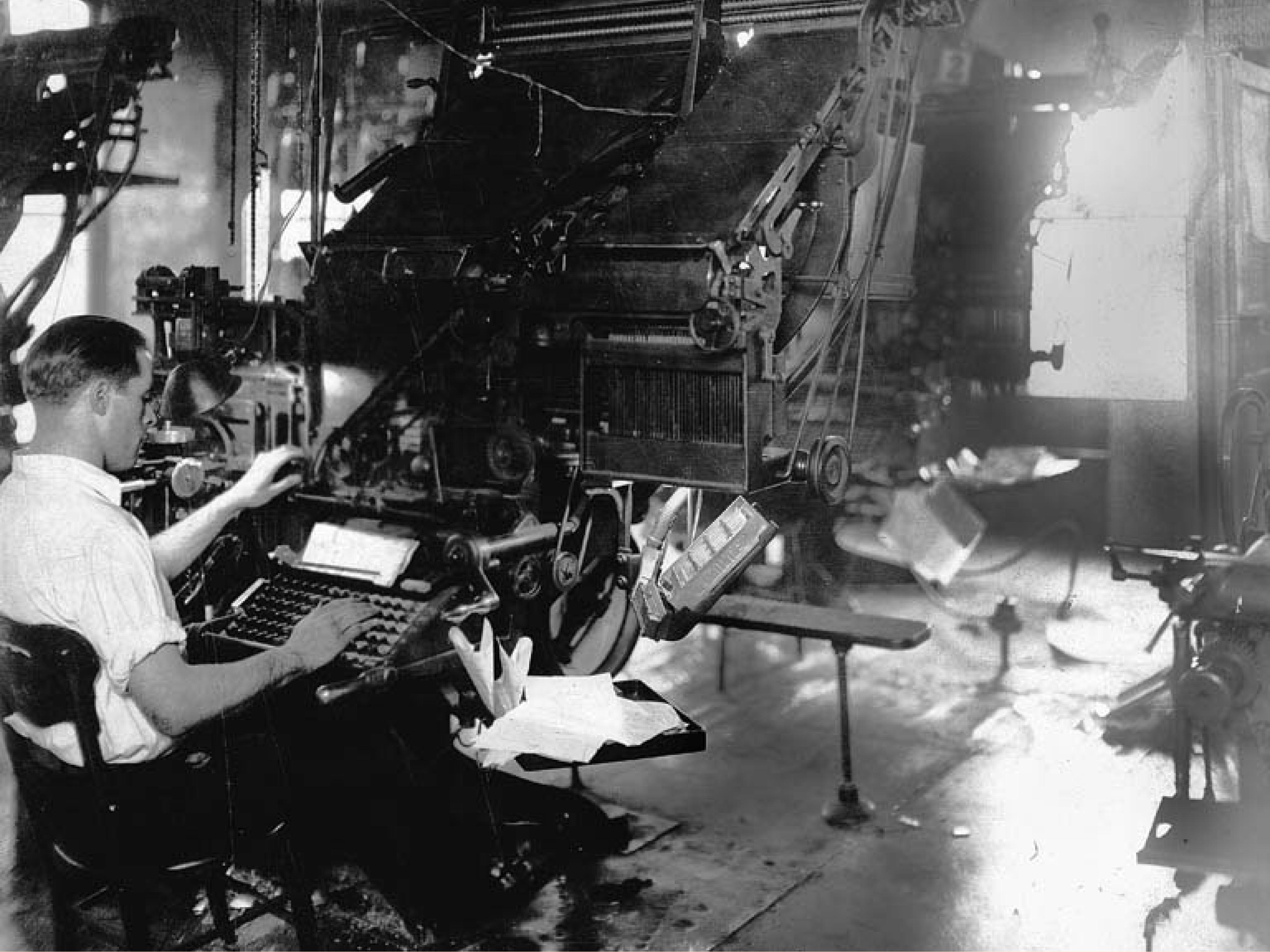
Things seen, heard, read, or othewise encountered:
Chille theories and concents
Skills, theories, and concepts:
Understanding:

## Types of content knowledge

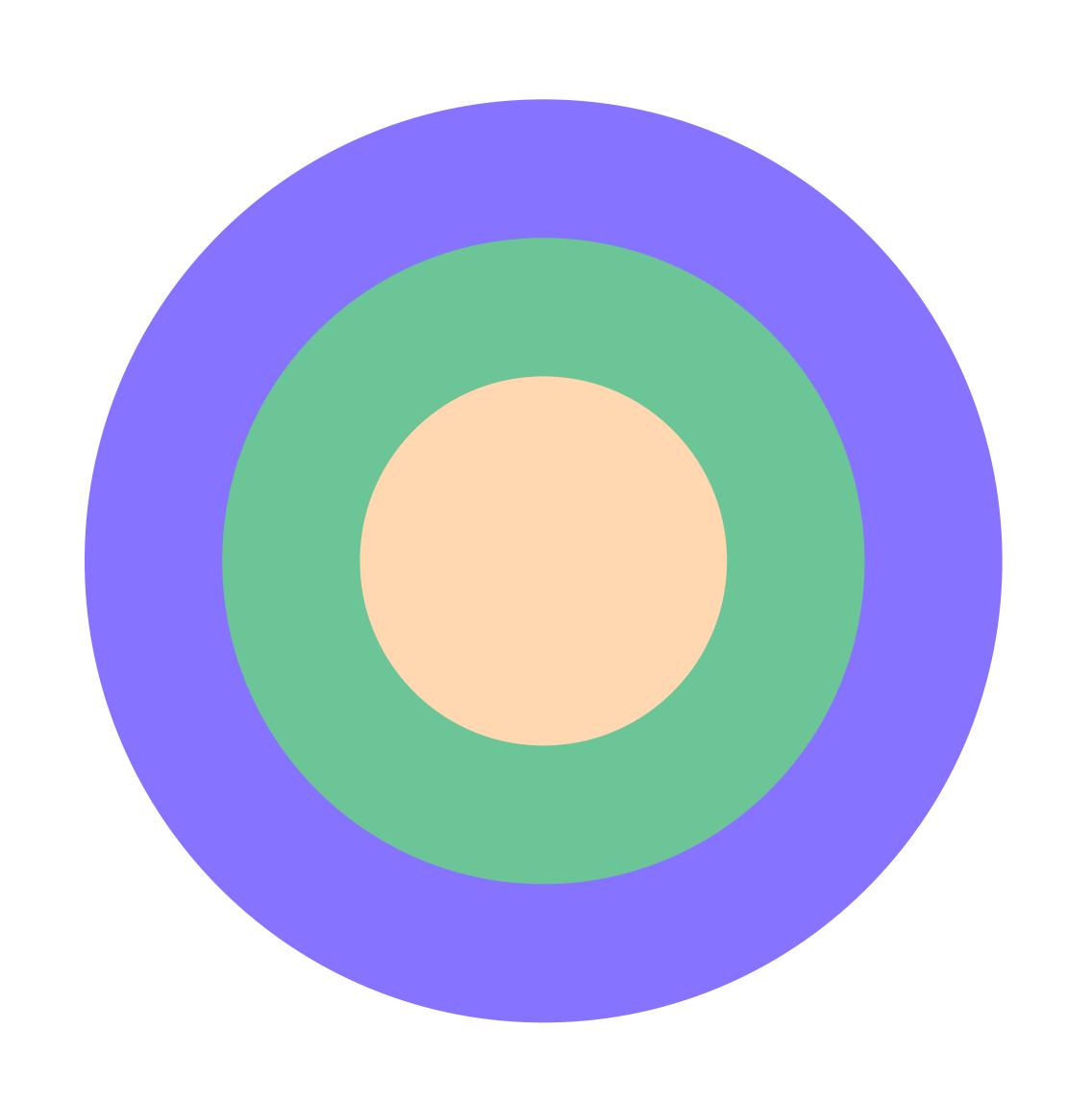


Things to be familiar with/to have seen, heard, read, etc.
Temporary relevance

Understanding by Design, Grant Wiggins and Jay McTighe



## Types of content knowledge:



Things to be familiar with/to have seen, heard, read, etc.

Temporary relevance

Theories, concepts, and skills

More stable but subject to change



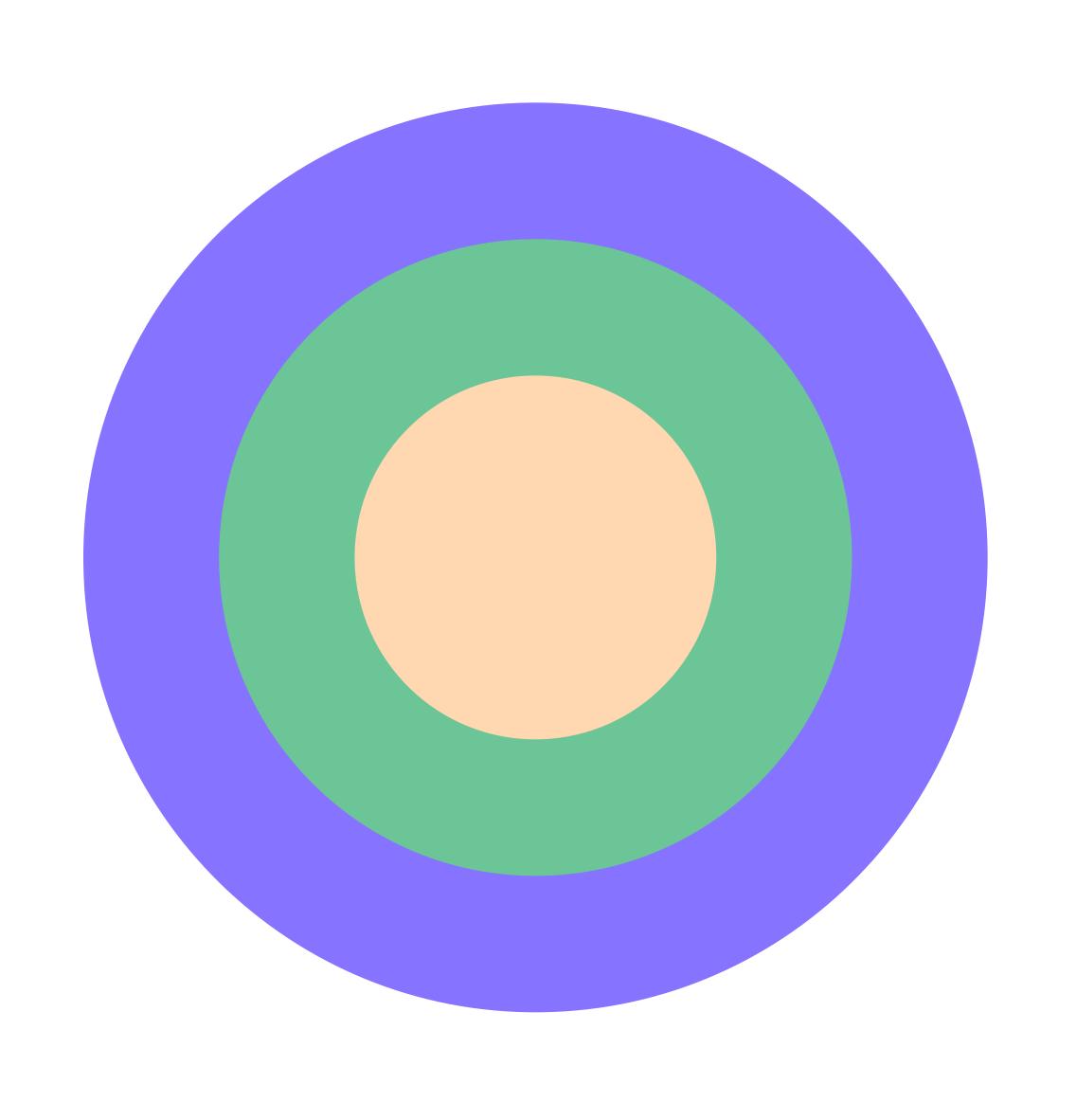
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## OF GRAMMATOLOGY



CORRECTED EDITION

## Types of content knowledge:



Things to be familiar with/to have seen, heard, read, etc.

Temporary relevance

Theories, concepts, and skills

More stable but subject to change

#### **Enduring understanding**

At the core of the discipline, stable

Metacognition

**Empathy** 

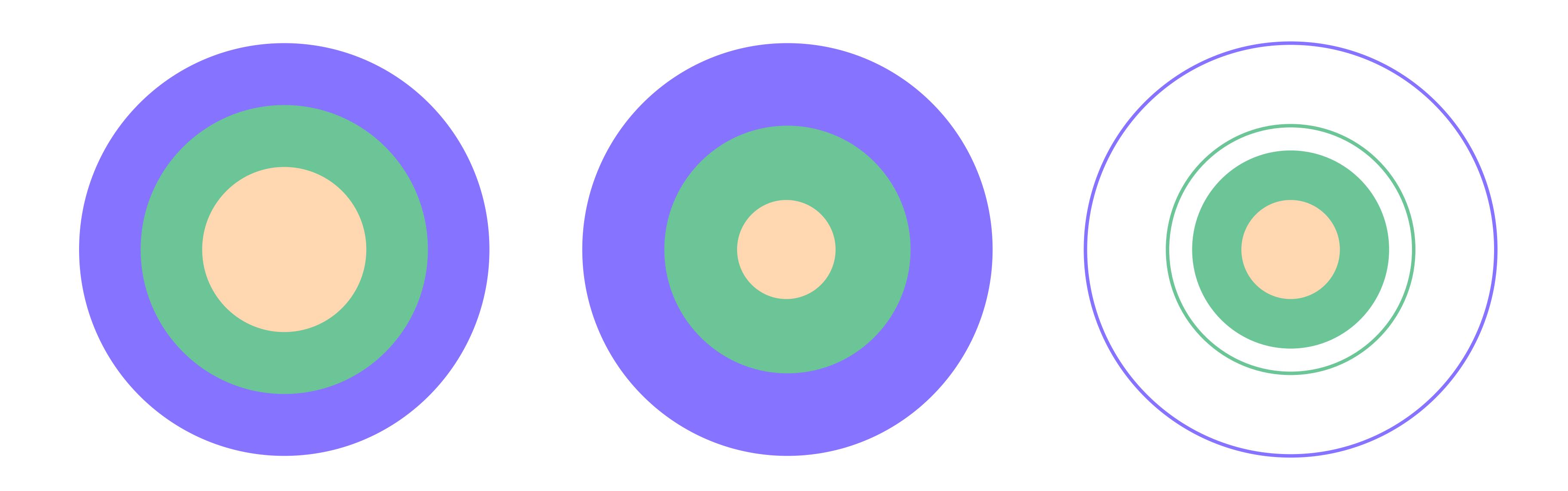
Holding a perspective

Application

Interpretation

**Explanation** 

## Types of content knowledge:



Increasing pressure to teach facts Many facts and skills decline in and skills, robbing time from content that is likely to endure

relevance after graduation and over a professional career

## We can spend our time...

teaching all the tools and functions of CS5 or how to make choices among various technologies and how to learn software

teaching students how to make a website or about the nature of interaction and

networked systems

teaching about famous designers/objects or about perspectives, precedence, context, and what we can learn from history

teaching what makes a good logo or about designing a service culture for organizations and companies

teaching how to make social cause posters or how to move people from not being ready to know to being ready to take action and to publicly advocate for a position

## Approach A

Buckets for content Scaffold from simple to complex Individual faculty define projects

Graphic Design I
Graphic Design II
Graphic Design III

Typography I Typography II Typography III

## Approach A

## Approach B

Buckets for content Scaffold from simple to complex Individual faculty define projects

Courses defined by products or segments of practice Courses defined by skills or tools

Graphic Design I
Graphic Design II
Graphic Design III

Publication Design Exhibition Design Web Design

Typography I Typography II Typography III

Photoshop InDesign Flash

## Types of design practice

Advertising design
Book design
Branding
Broadcast design
Corporate collateral
Direct mail/marketing
Exhibition design
Experience design
Game design
Icon/symbol design
Information design/mapping
Interaction design
Logo and identity design

Magazine design
Mobile/small screen design
Motion graphics/title design
Newspaper design
Package design
Poster design
Retail/catalog design
Service design
Signage design/wayfinding
Social design/public service
Textbook/educational design
Typeface design
Universal design
Web design

## Formats are not enduring understanding

If we build curricula around formats, we are likely to find ourselves unable to respond quickly to changing conditions, when new formats replace old or when the scope of the problem expands.

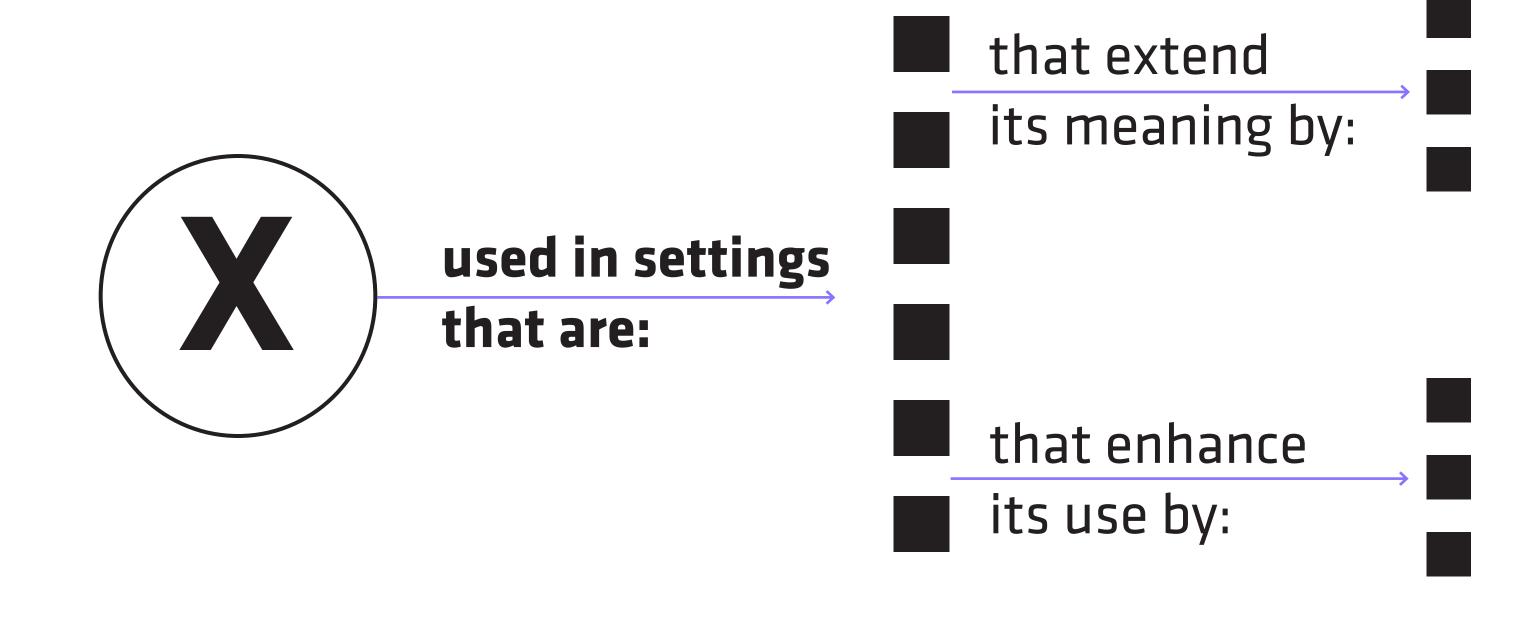
And if we tie the teaching of form to decontextualized exercises, we risk being only about abstract principles that are later challenged by shifting media contexts and by the growing need for things that are social as well as visual.

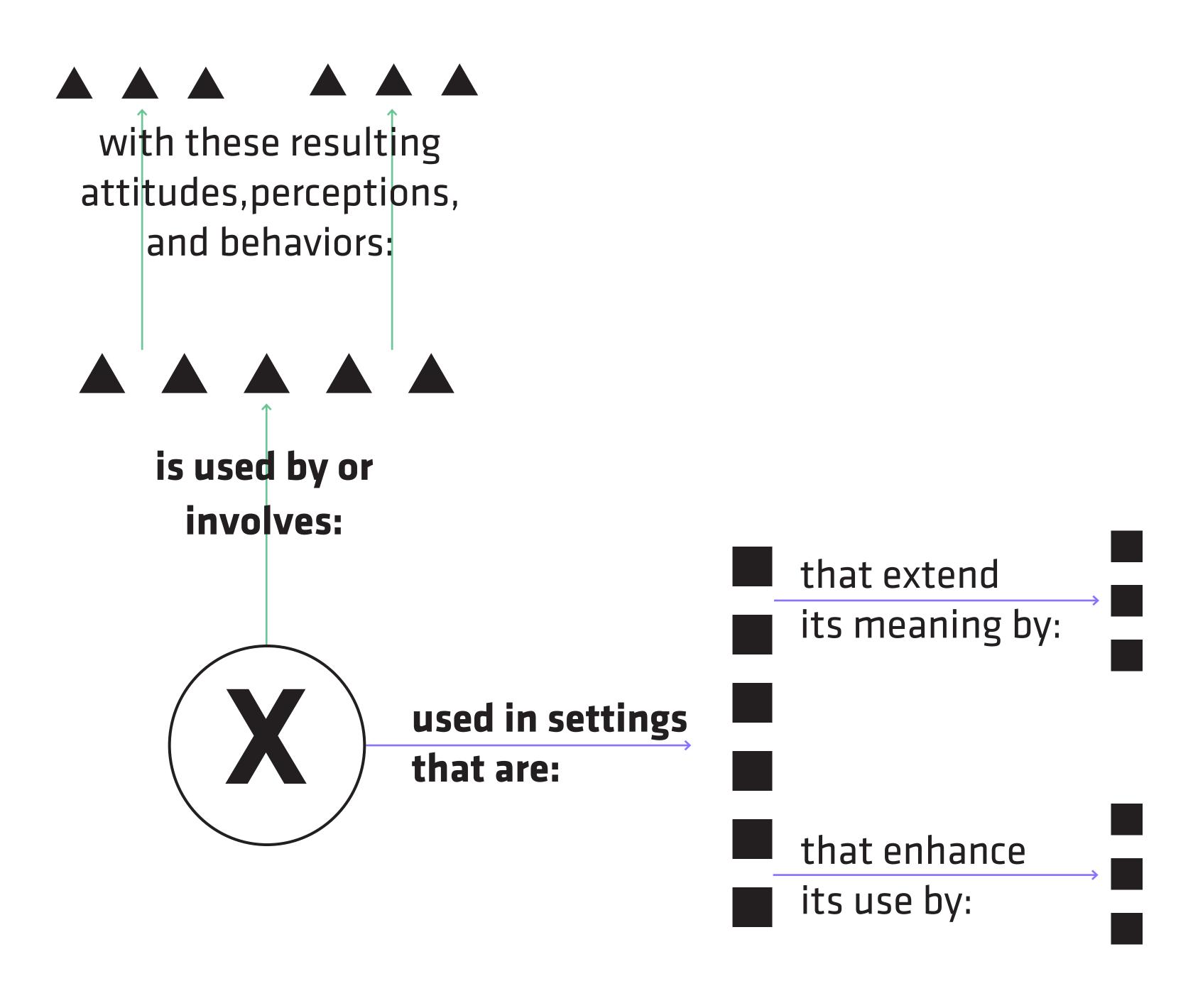
## What is enduring is that:

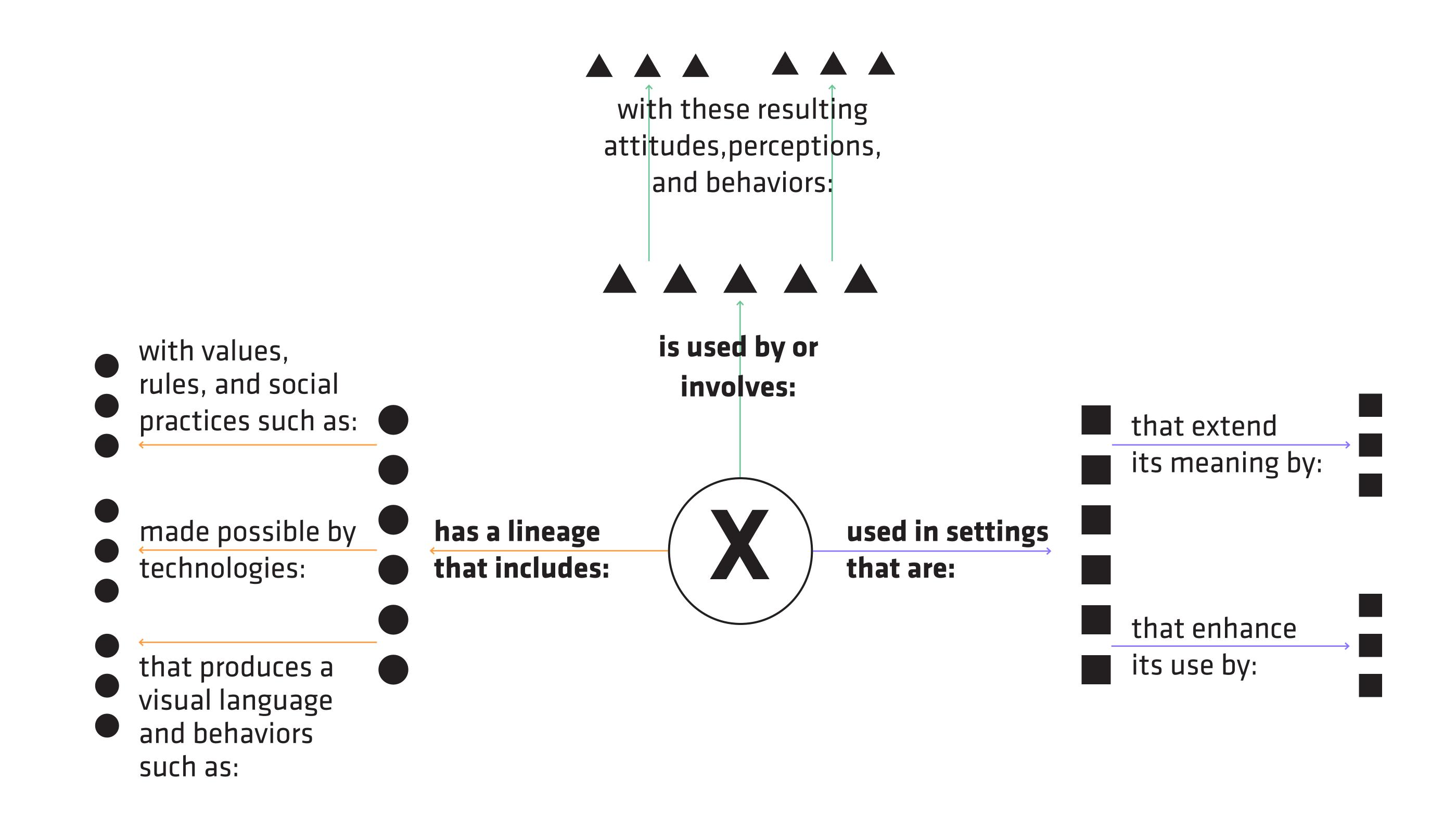
Design is a **mediation** between people and the relationships or activities they hope to accomplish in their interactions with their environments.

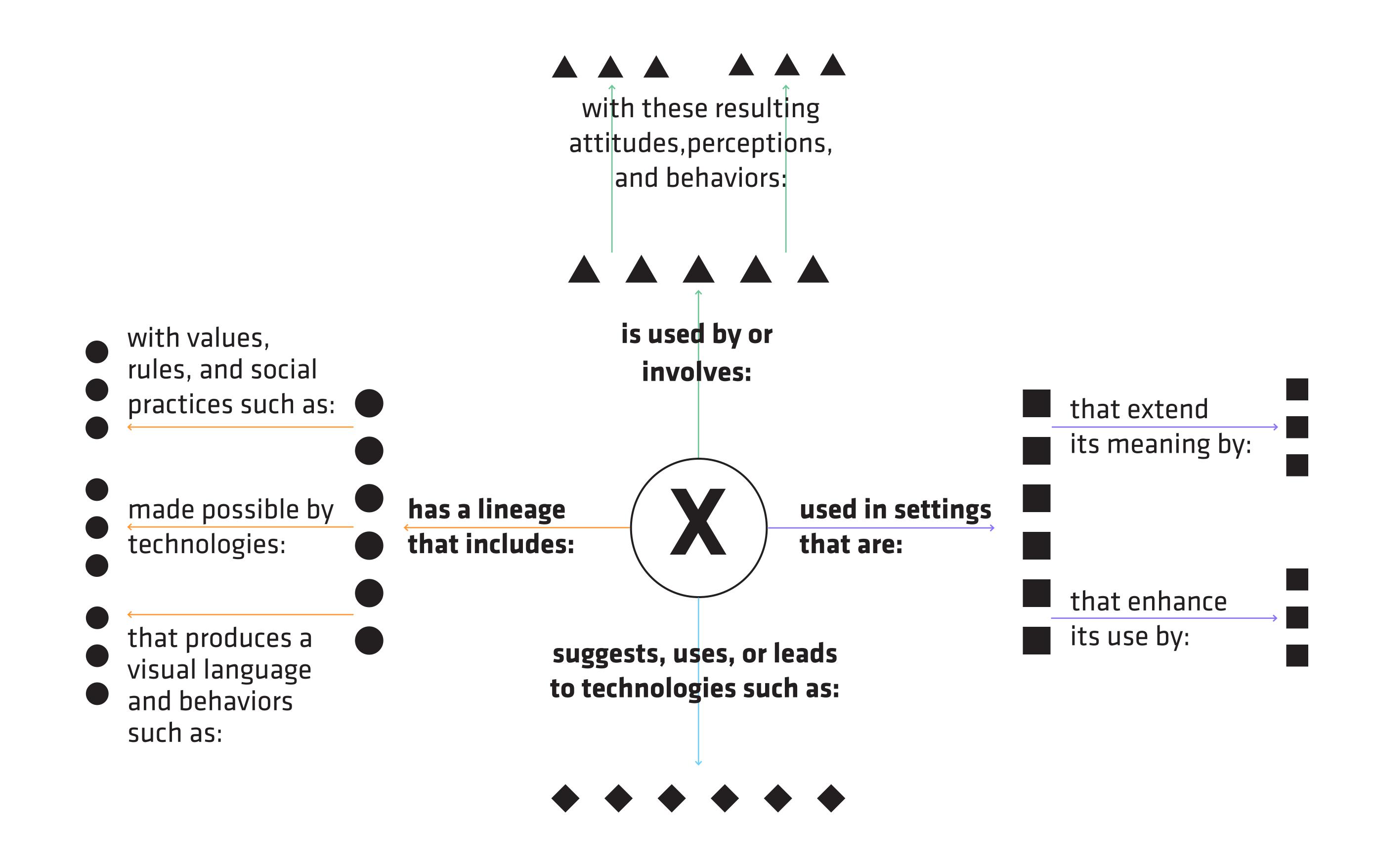
Design will be judged in its **goodness of fit between form and context**, and while the specific elements and qualities of that context (and form) will change, the general aspects of context are describable and always present.

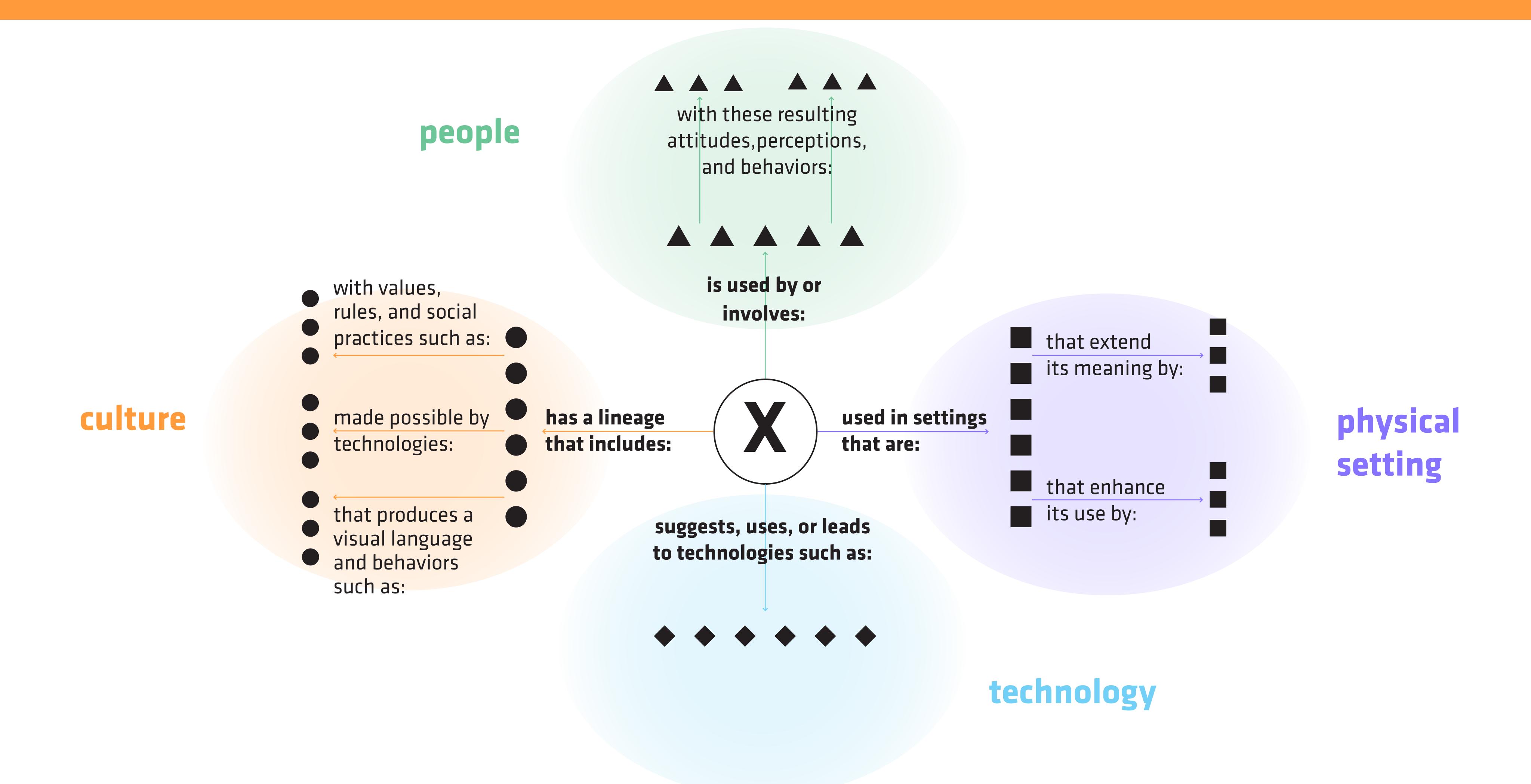
The role and character of design mediation can be viewed at **various scales** and from different **points of entry** to larger systems.

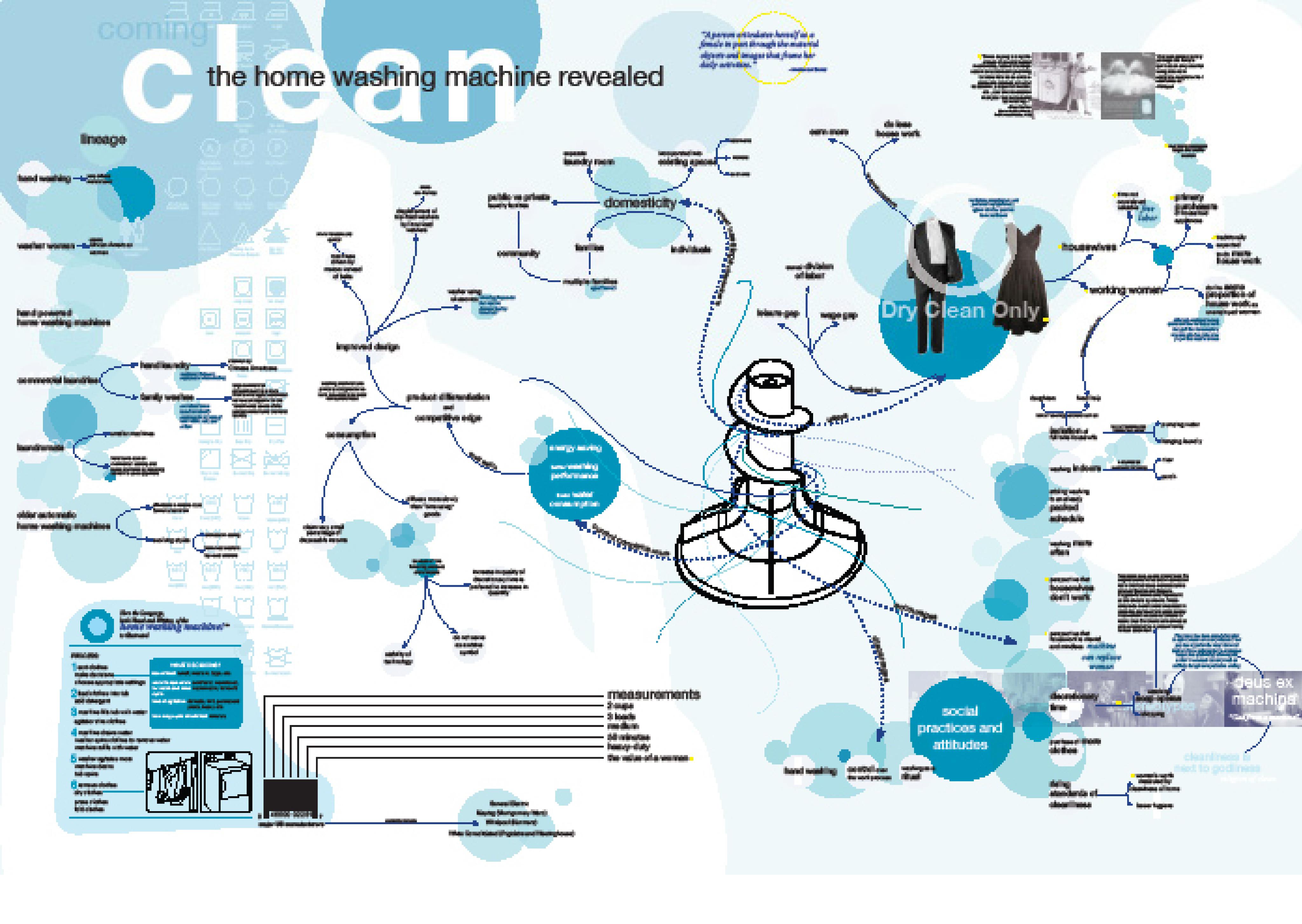














# Pedagogical assumptions:

- Students learn best under a simple-complex progression of ideas
- A formal language must be mastered before students can address complex situated problems
- All students need to be doing the same thing at the same time
- Desk crits are the best way to use studio time
- All students benefit from all-class critiques

# Flexible frameworks suggest that...

Important content may not require its own course

Instruction need not be 16 weeks in length

Faculty may not work with all of the students all of the time

Different students may achieve the same curricular outcomes through different curricular paths

### Flexible curricular structures

Thematic structures and curricular logic vs. rigid requirements and cafeterias of courses

Pedagogies that support large class sizes / challenges to longstanding assumptions about teaching studio

Special topics offerings determined against goal-driven criteria

Common courses among programs

## Thematic structures:

Sophomore / Object	Technological system	timeline
	Cultural system	poster
	Cognitive/social system (people)	product instructions
	Physical system (setting)	experience map
Junior / System	Technological system	website (interactive system)
	Cultural system	identity program (branding system)
	Cognitive/social system (people)	publication (reading system)
	Physical system (setting)	signage (wayfinding system)
Senior / Interacting systems	Technological system	networking/collaboration
Jeiliui / Iliteractilig Systems		
	Cultural system	advocacy
	Cognitive/social system (people)	learning
	Physical system (setting)	physical interaction

# Thematic structures / typography:

**letter > word > sentence > paragraph > page > publication**print-based, reflective of drawn comping methods, inconsistent with knowledge demands placed on students by current technologies, and usually scaffolded in typography I, II, and III

relational systems:

formal systems
descriptive systems
technological systems
language systems
reading systems

# Teaching larger studios:

Getting rid of desk crits
Getting rid of all-class critiques
Getting rid of all students doing the same thing at the same time

Structuring class time around common goals and needs Reducing the risk in group work Making good use of technology Asking for presentations of learning outcomes, not projects

## Special topics:

Allows quick response to opportunities and imperatives in the context

Guided by earlier decision-making about objectives

Can be targeted to specific student groups based on skills and needs

Takes advantage of unique faculty profiles or one-time staffing and expands overall faculty expertise

Suggests providing space within the curriculum that allows students to meet requirements through the special topics offerings - advised electives

### Common courses:

Extend the teaching resources / eliminate wasteful redundancies

Provide interdisciplinary experiences for students and faculty

Introduces flexibility in scheduling

## Common courses:

DRAWING	Architecture:	Art and Design:	Graphic Design:	Industrial Design:	Landscape Architecture:
Types of drawing:	Perceptual drawing (from observation of models, built environment, and nature) Basic understanding of perspective Basic understanding of orthographic conventions Sighting / proportional relationships Contour drawings (use of line to depict form and space) Value map drawings (use of tonal values to depict form and space) Measured paraline and perspective drawings Architectural drawing conventions	Analytical drawing (observation)     Perspective system     Orthographic system     Proportional awareness     Simple geometric shapes     Construction of finished forms/objects     Grid systems and pattern networks     Tesselations, golden rectangle,		Visual variables such as: line and objects in profile; line and perspective systems; conveying scale and environment; depicting shadow and shade; shading as an impression of form; composition - unity and contrast; applied use of color in various media  White-board sketching during client meetings and video conferences	Perceptual drawing (from observation of models, built environment, and nature) Basic understanding of perspective Basic understanding of orthographic conventions Sighting / proportional relationships Contour drawings (use of line to depict form and space) Value map drawings (use of tonal values to depict form and space) Measured paraline and perspective drawings Architectural drawing conventions
Related types of representation:	Drawing with an emphasis on spatial representation	Use of implements and means to make marks on paper or other substrates (pens, pencils, brushes, chalk, markers, thread, etc.)      Use of graphics tablet to draw	Explore various expressive qualities of mark-making tools and their translation through digital technology     Use diagramming, mapping, storyboarding, wire framing, and modeling methods in analyzing aspects of a problem or context, articulating patterns within data, capturing motion or behavior in key frames, and exploring relationships among components within a system     Draw letterforms and glyphs - understand the difference between the mechanical drafting of a letterform and its optical impression within text     Master Illustrator as drawing tool	Combine hand drawing with digital tablet use and 3-D modeling programs	Variable media - pencil, pens, markers, colored pencils, pastels, watercolor, etc.     Diagramming     Functional relationship mapping
Role of drawing in the curriculum:	Basic representational drawings (orthographic, paraline, and perspectives) emphasizing use to visualize, clarify, and articulate design ideas     Use of drawing simultaneously with physical models to think through a studio project	Drawing as a way to think     Rapid visualization of form     Increased observational skills     Making thumbnail sketches to generate ideas     Drawing to communicate to others     Process journal	Make informed choices among representational strategies for communicating content and addressing audience needs	Sketch fluently in order to communicate a broad range of subject matter and concepts     Use drawings to show concept development, idea generation, and idea refinement     Drawing as a way of seeing	Understand the communicative value of each media type and its applicability to various studies and audiences     Drawing to think
Elements of design understood hrough drawing:	Figure/ground relationships	• Composition	Use the variables of value, texture, line, and shape in the design of typographic layouts at both display and text sizes	Contrast, lighting, and composition     3-D modeling	Scale/proportion     Figure / ground     Light/shade/shadow

PROFESSIONAL	Pink text is recommended content for first-year instruction / Bold text is where at least two programs share an interest			Landscape	
PRACTICES	Architecture:	Art and Design:	Graphic Design:	Industrial Design:	Architecture:
Knowledge of the field:	Nature of professional practice     Role and function of practicing architect	Know skills necessary for different kinds of professional practice	Become familiar with various types of practices and professional contexts (ie. advertising agency, in-house corporate, small studio, large studio, freelance, etc.)     Analyze shifting paradigms for design practice (AIGA Designer 2015, National Design Policy)     Establish relationships with professional associations	Become familiar with various types of practices and professional contexts (ie. advertising agency, in-house corporate, small studio, large studio, freelance, etc.)     Analyze shifting paradigms for design practice (AIGA Designer 2015, National Design Policy)     Establish relationships with professional associations	Roles and responsibilities     Scope of practie - breadth of industry, limitations, trends
Management/business skills:	Office and project management	Direct teams     Technical writing     Working with studio assistants/ employees	Model how professionals manage project teams and work with vendors     Describe methods and procedures used by design offices for getting new work (branding, estimating, bidding, and billing)     Identify critical areas in establishing and maintaining designer/client relationships (ex. communication briefs)	Model how professionals manage project teams and work with vendors     Describe methods and procedures used by design offices for getting new work (branding, estimating, bidding, and billing)     Identify critical areas in establishing and maintaining designer/client relationships (ex. communication briefs)     Case studies and challenging situations     How to deal with challenges as lower-level empoloyee	Branding     Technical writing     Project teams and teamwork     Office and project management     Industry standard practices     Time management/time tracking
Legal, ethical, and financial issues:	Ethics     Contracts and fee structures     Legal and regulatory conditions in the practice of architecture	Understand ethics, fair use, copyright, payment, commissions Understand taxes for independent artists and small businesses Make a business plan Identify intellectual property and copyright issues	Discuss ethics and standards of fair practice, including work for hire and confidentiality Practice writing letters of agreement and simple contracts Identify intellectual property and copyright issues Recognize the challenges of setting up a practice (ex. partnerships vs subchapter S corporations)	Discuss ethics and standards of fair practice, including work for hire and confidentiality     Practice writing letters of agreement and simple contracts     Identify intellectual property and copyright issues     Recognize the challenges of setting up a practice (ex. partnerships vs subchapter S corporations)	Ethics     Contracts and fees     Legal and regulatory issues     Understanding licensure (rules, regulations, and processes)     Title versus practice act
Getting a job:		Compose resume, standard business letter, design philosophy or artist statement, press release Compile and present portfolio of work Making professional websites	Organize job searches, including letters of introduction, resumes, portfolios, internships, freelance, and salary expectations	Organize job searches, including letters of introduction, resumes, portfolios, internships, freelance, and salary expectations	Capstone - how to leverage final projects     Portfolio preparation     Resume preparation     Interview skills and awareness

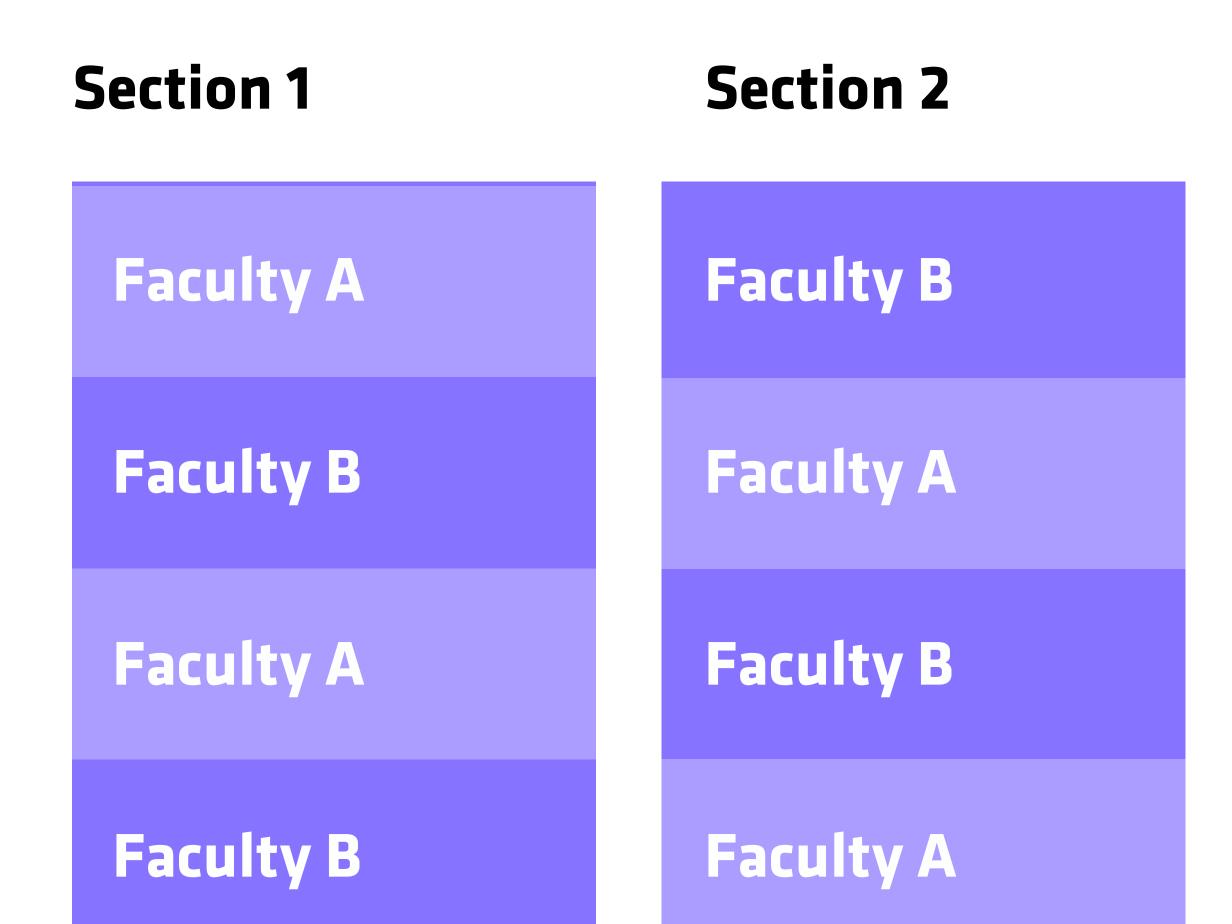
COMMUNICATION / PRESENTATION	Architecture:	Art and Design:	Graphic Design:	Industrial Design:	Landscape Architecture:
Preparing a visual presentation:  • Studio based,	Studio based, not common courses	Assemble an attractive, readable, and distinctive Powerpoint (or other format) digital presentation     Design an attractive storyboard or poster about creative work or research     Label and provide commentary for samples in a notebook (typed, using appropriate fonts and sizes)	Produce simple presentations of research and design solutions in print and screen-based form, using visual and verbal elements Identify sources of visuals that will support design solutions in presentations - use them with full crediting and fidelity Articulate the audience and settings for the presentation and their characteristics that argue for certain communication vehicles or	Produce simple presentations of research and design solutions in print and screen-based form, using visual and verbal elements      Articulate the audience and settings for the presentation and their characteristics that argue for certain communication vehicles or	2-D layout and composition     3-D model making     Craft     Effective use and development or similar software     Development, recording, and use of process drawings     Storyboarding (large projects)     Photography / Videography     Mapping (ortho, photos, drawn)
		<ul> <li>Photography</li> </ul>	approaches over others  • Master the basic technology (photography, drawing, scanning, etc.) and layout software needed to produce these presentations • Recognize how much and what kind of verbal explanation is necessary to support arguments in the presentation of design solutions, distinguishing the differences for when you're there and when you're not	approaches over others	
		<ul> <li>Typography /Make good selections of typographic elements that support the hierarchy of information in the argument</li> <li>Concept/thought mapping</li> </ul>	Make good selections of typo- graphic elements that support the hierarchy of information in the argument     Craft models, maps, diagrams, and charts in support of design research and solutions to design problems     Organize elements in ways consistent with the hierarchy of the project narra- tive and the attention demands on the audience - scale information in ways that are appropriate to the argument and that don't distract from core ideas	Make good selections of typo- graphic elements that support the hierarchy of information in the argument	
Delivering an oral or written presenta- ion:		Prepare and deliver a digital presentation of their own work Prepare and deliver a simple verbal presentation - outlining, notes, body language, set up, image and text management, clear and organized verbal delivery Enhance writing skills and choose appropriate writing methods Present work in a physical portfolio - organization, labeling, commentary, consistency in page size, access for review	Practice making oral and written explanations of projects - organize content for maximum effect in communicating the status of the project and its goals (also ADN)     Determine the sequence of presentations that best reflects the progress of the project and choose vehicles for presentation that are appropriate to the stage of the project (also ADN)	Understand the difference between speaking voice and writing voice Learn the importance of building an argument and maintaining the flow of logic without interruptions/divergence How to write or speak effectively in fewer words Listening to client and then analyzing needs and presumptions that may be erroneous Practice making oral and written explanations of projects - organize content for maximum effect in communicating the status of the project and its goals (also ADN)	Basic rules of conduct for presenta     Verbal defense of an idea     Written reflection of process an outcomes     Concept/descriptive narrative     Charette facilitation     Portfolio/web development     Report writing

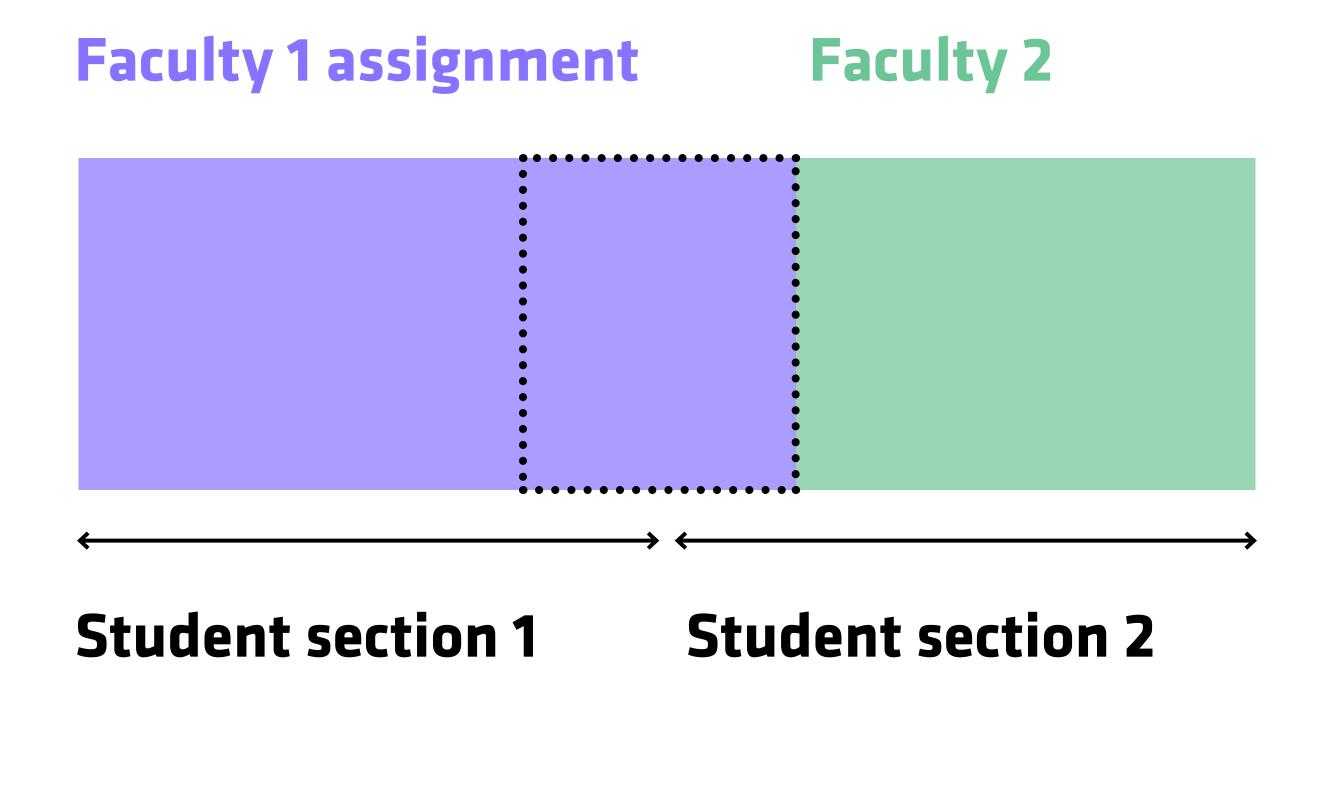
TECHNOLOGY	Architecture:	nt for first-year instruction / Bold text  Art and Design:	Graphic Design:	Industrial Design:	Landscape Architecture:
Basic computing skills and attitudes:	Adobe Creative Suite (Photoshop, InDesign, Illustrator)     Basic 3-D modeling (Sketchup)	Find help with technology problems in the college, online, and after graduation      Understand approaches to learning new software     Understand software appropriateness     Select the right tool for the right task      Master file management     File sharing parameters	Locate college resources for technical assistance related to networking, printing, projecting, and hardware support     Adopt effective and varied software skills (including how to use tutorials, online help services, manuals, etc.)     Master the basics of an operating system (including finder, hard drive, and system preferences)     Master the basics of network use (including logins, passwords, workflow, and server options)     Use standard protocols for file management and backup     Demonstrate a functional understanding of electronic communication (including email, posting visual work on blogs and websites, file and document sharing, etc.)     Learn to burn CDs and DVDs		Importance of backups     Select the right tool for the right task     Comprehension of Mac and PC platforms (including parallels)     Understand file sharing, manage ment and workflow     Understand connectedness of programs     Exposure to general industry standar (i.e. naming conventions)
Peripherals and presentation formats:			Master the basics in the use of digital cameras and digital video for research		Hardcopy vs. digital presentations
	Scanning and printing	Master printing protocols     Laser cutter     Scanning methods     How to use digital camera     Using the plotter  Understand legal issues related to the internet and email  Make digital presentations	and documentation  Demonstrate the ability to scan, assemble, enlarge and reduce, and output electronic and printed images from these cameras  Demonstrate a functional understanding of simple wordprocessing (including effective use of grammar and spellcheck)  Use digital research skills as identified in UNDERGRADUATE RESEARCH  Produce simple PDF, Keynote, or Powerpoint slide shows		Scanning, printing, plotting     Available media types (bond, glossy, etc.)     Laser cutter     Construction documentation
Disciplinary software:	Basic Rendering     2-D vector graphics (AutoCAD and Illustrator)     Intermediate rendering and composition (Podium and Illustrator)     Building Information Modeling (Revit)     Advanced digital modeling (Rhino)	Create a website (software?) Basic InDesign Basic Photoshop Basic Illustrator	Adobe Creative Suite (Photoshop, InDesign, Illustrator)     Website production, including CSS, Flash, Dreamweaver		Adobe CS4 (Photoshop, Illustrate InDesign)     AutoCAD     Sketchup     iMovie     Microsoft Word and Excel     GIS (ArcView)

MATERIALS /	Pink text is recommended conto	nded content for first-year instruction / Bold text is where at least two programs share an interest			Landscape
MATERIALITY	Architecture:	Art and Design:	Graphic Design:	Industrial Design:	Architecture:
Kinds of materials:	Concrete Wood Masonry Steel Materials relating to construction systems (cladding, glass, metal, and plastics) Advanced structural applications (concrete, wood, steel, and masonry)	Recycled materials     Textiles, thread, fabric, dye     Paper, paint, inks     Wood, clay, stone, metals	Reflective surfaces (ex. paper) Backlit surfaces (ex. computer) Projected surfaces Environmental surfaces (ex. exhibition and signage) Dynamic versus static surfaces	Concrete, wood, steel Metalworking processes and precision machining Injection molding, polymer processing, and composites at various scales Desktop and 3D modeling/thinking Woodworking Joinery, Japanese methods Additive/subtractive processes	Concrete Wood Masonry Metals Soils and plant materials Water Recycled products Composites Fabrics/textiles
Concepts related to the use of materials:		Sustainability     Material effect on message or communication      Understanding how to make use of constraints of specific materials, tools, and production methods     Exposure to and experimentation with new materials - testing for essential characteristics     Knowledge of links between materials, concepts, structures, uses - appropriateness     Develoments in material sciences     Knowledge of haptic characteristics of	Sustainability     Legibility     Expressiveness     Behavior (in virtual environments)	Sustainability     Understanding how to make use of constraints of specific materials, tools, and production methods	Hands-on making     Essential material properties     Life-cycle costing     Cost estimating     Scale     Strength and aesthetics     Fundamental methods of assemb     Material interface and the art of detailing
		making and interacting with objects     Importance of sequence in using tools and materials     Manipulating, joining, connecting, or blending different materials     Attention to detail - for craft, safety, and aesthetics      Safety in use (repercussions of misuse and miscalculation of tolerances)      Scale appropriateness in use of materials, balance of parts		Importance of sequence in using tools and materials     Scale appropriateness and sense that all components are balanced in their loading     Issues learned in Dana Raymond's studio     Draping with cloth	Safety - shop protocols and certifications

EACHING SEMINAR		l content for first-year instruction / Bold text i			Landscape
DDN 685 COURSE)	Architecture:	Art and Design:	Graphic Design:	Industrial Design:	Architecture:
uthoring curriculum:	ON THIS TOPIC	Structuring an effective studio- based course     Structuring an effective studio- based project	Writing curricular and course objectives / descriptions     Writing project objectives / descritpions     Scaffolding project sequences	Would be effective for training TAs and Adjuncts	• Lesson planning
aching formats:	NO INFORMATION SUBMITTED 0	Structuring a series of lectures and related readings     Presenting course material in a variety of formats	Teaching lecture classes and seminars Structuring material for presentation to large audiences Using readings Integrating writing in design		<ul> <li>Teaching lecture classes and seminars</li> <li>Integrating writing in design</li> </ul>
dagogy:	NO INFORMATIO	Classroom management - structur- ing the environment to maximize learning     Addressing student questions	Pedagogy and classroom management     What to look for in the work of experienced teachers - doing observations     Managing collaborative and sponsored projects		Pedagogy and classroom management Pedagogy - performance vs. prescription Conflict resolution
aluation:		Providing meaningful and specific commentary and grades	Evaluating student performance - writing rubrics     Critiques and grading		Evaluating student performance - creating rubrics     Critiques and grading
urse contexts / related skills:			Role of general education in professional design curricula     Developing undergraduate research skills     Use of technology in classrooms     Presentation and resource strategies		Use of technology in classrooms     Presentation and resource strategies
anning and projection:			Educational landscape in design     Strategic planning and projections     Building the curriculum within the context of national trends and the strategic environment		
culty responsibilities:			Faculty assessment - teaching, research, and service     The tenure process     Grants and sponsored research		
tting a job:			Developing a teaching portfolio     Searching for a teaching position     Preparing for a teaching interview		
story:			History of design education		

# Flexible faculty assignments





Half the faculty preparation

Twice the faculty expertise

Identical instruction for each section

Combines two sections; two disciplines; or two student levels

Two types of instruction taught to different class sizes

Two different levels of faculty commitment

# Flexible faculty assignments

Modules:	Students take three of three					
	Faculty 1	Faculty 2	Faculty 3			
Modules:	Students take two of three					
Time slot A	Faculty 1	Faculty 2	Faculty 3			
Time slot B						

## Time for discussion...