





JINGYI LI, ERIC RAWN, JACOB RITCHIE, JASPER TRAN O'LEARY, SEAN FOLLMER

UIST 2023 In beautiful



WHEN WE SEE A CREATIVITY SUPPORT TOOL(CST), WE SHOULD SEE A POWER RELATIONSHIP.

TOOLS MEDIATE THE POWER TO-

AN ABILITY TO DO LAYERS!
SOMETHING

ACCOMPLISH MANY CREATIVE TASKS.

SOFTWARE CONSTRAINTS, ABSTRACTIONS, & OR REPRESENTATIONS STRUCTURE HOW USERS INTERACT WITH AND THINK ABOUT TOOLS.

THIS & EMPOWERS TOOL USERS,
BUT IS ALSO A WAY CST DESIGNERS &
RESEARCHERS HAVE DOLLED

RELATIONSHIPS BETWEEN ACTORS

(Dahl, 1957)



POWER -OVER THEM.

UNDERSTANDING

THE POWER DYNAMICS PRESENT IN CSTS
CAN HELP US ...



build systems

towards

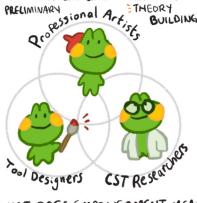
mitigating

nower impolance



methods

WE INTERVIEWED 11 LREATIVE PRACTITIONERS FOR PRELIMINARY THEORY BUILDING ?



E.G., WHAT DOES EMPOWERMENT MEAN IN THE CONTEXT OF CSTS?

TOOLS FAOING INTO THE BACKGROUND'

REMOUING AS MANY 😤 SESTACLES AS POSSIBLE

ALIGNS WITH THE CURRENT HCL CONVERSATION

"DRAWING TO DELIBER-ATELY SEE AND REFLECT ON OBJECTS" "DIRECTING AN AUDIENCE" GAZE, AUTHENTICALLY

CAPTURING MY WORLD VIEW" LESS SUPPORTED BY

PURCLY TECHNICAL CONTRIBUTIONS



INSTEAD OF BEING PRESCRIBED A LEVEL OF ABSTRACTION, CREATIVE PRACTITIONERS NEED

III VERTICAL MOVEMENT III

ALONG THE LADDER OF ABSTRACTION.

EX: LETTERING IN ILLUSTRATOR . HIGH LEVEL

FOR ARTISTS WHOSE PRACTICES ARE DEFINED BY LLEATING UNIQUE, THOUGHT PROVOKING WORK THAT STRETCHES THE LIMITS OF THEIR MEDIUM, HAVING THE POWER TO APPROPRIATE

TOOLS IS ESSENTIAL.

· HILH LEVE ? CHOOSE A NEW FONT



EDIT KERNING

· LOW LEVEL ENT VECTOR VERTICES



ATHE INTERESTING THINGS ARE DOING WHAT TOOLS ARE NOT DESIGNED FOR."

ONE WAY CST DEVELOPERS/RESEARCHERS
EXERT POWER OVER CREATIVE PRACTITIONERS
WHO USE THEIR TOOLS IS WHEN PRACTITIONERS
CAN'T PICK THEIR OWN ABSTRACTIONS.

RECOMMENDATIONS 👢



WHEN ARTISTS STRUGGLE WITH PICKING THE RIGHT LEVEL OF ABSTRACTION FOR THEIR TASK, THEY MOVE = HORIZONTALLY = TO NEW TOOLS.

> THUS, WE ADVOCATE FOR DESIGNING

EDIT FONT PIXELS GHROTOHA HTIM



COMPOSABLE BUILDING BLOCKS INSTEAD OF END TO END SYSTEMS,

SO CREATIVE PRACTITIONERS CAN HAVE THE POWER TO CREATE THEIR OWN CONSTRAINTS + ABSTRACTIONS.

OR, BUILDING PLUG-INS D/ INSTEAD OF BRAND NEW TOOLS TO ANSWER RESEARCH QUESTIONS. AS PLUG-INS COULD MITIGATE POWER OVER DYNAMICS OF A NEW normative

So at some point along the way, rules-as-constraining Pass over into rules-as-enobling even if it's impassible to say exactly where. Freedom, then, really where tension of the free play of human creativity against the roles it is constantly generating."

NORMATIVE GROUND

Q: WHAT IS NORMATUE GROUND?

A: THE WAY A TOOL STRUCTURES ITS

PRACTITIONERS' IDEAS, GOALS, AND

INTENTIONS, SHAPING HOW THEY THINK,

ACT, & EXPRESS THEMSELVES. EG...

MENTAL MODELS
ONLINE COMMUNITIES
DOCUMENTATION
WOED TUTORIALS LICENSING MODES
AVAILABLE FEATURES
CULTURAL NORMS

BUILDING A NEW TOOL = ENACTING A NEW NORMATIVE GROUND

BY DICTATING WHAT SHOULD BE MADE "EASIER", CST RESEARCHERS EXERT POWER DUER CREATIVE PRACTITIONERS WHO TRY TO MAKE SENSE OF THIS NEW NORMATIVE GROUND, EVEN THOUGH THEY WOR EASE THEIR POWER TO ACCOMPUSH AN "EASIER" TASE.

YET ...

CREATIVE PRACTICE IS AN OPPORTUNITY TO TROUBLE POWER DYNAMICS BY PROPOSING A NEW NORMATIVE GROUND THROUGH ARTMAKING!

TOWARDS "ARTISTIC SUPPORT TOOLS"

SO WHERE DO WE GO FROM HERE?

WELL, ONE OBUIOUS THING IS TO INVEST IN THE COMMUNITIES DUR TOOLS ARE MEANT TO SERVE, RELEASE & MAINTAIN THEM, A UPIO THE PAPER TREADMILL...

BUT WE'RE ALL UNDER THE OPPRESSIVE TORCES OF ACADEMIA! SO, WHY NOT...

- · VIEW CSTS AS PROBES TO STUDY CREATIVITY AND ARTMAKING, RATHER THAN PROTOTYPES FOR "EFFECTIVE" DESIGN PRINCIPLES
- . GO BEYOND THE ARTIFACT AND RECOGNIZE HOW TOOLS CAN INFLUENCE LARGER CREATURE SITUATIONS, BEYOND FUNCTIONALITY & USABILITY
- · BUILD APPROPRIABLE TOOLS AND COMPOSABLE
 PRIMITIUES, AND STUDY HOW THEY'RE BEING
 USED/MISUSED
- · VALUE CASES WHERE TOOLS FAIL THEY MIGHT TEACH US MORE THAN WHEN TOOLS WORK!
- MHAT IF BUILDING CSTS WAS AN ARTISTIC PRACTICE ITSELF? (META!) TOOLS CAN ALSO MAKE NORMATIVE CLAIMS & QUESTION POWER RELATIONS!

 Pet's Jo it together!



SO NOW YOU KNOW...

LET'S MOVE BEYOND ARTIFACT

CREATION & TAKE CREATIVE

PRACTICES - AND CREATIVE

PRACTITIONERS - SERIOUSLY!



DOI.ORG/10.1145/3586183.3606831

QUESTIONS? DISAGREEMENTS?

