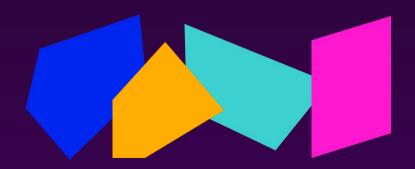


THE UNIX PHILOSOPHY





THERE IS NO UNIX PHILOSOPHY

BOTTOM-UP, NOT TOP-DOWN

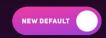


THERE ARE NO UNIX SYSTEMS

BUT SEVERAL -NIX SYSTEMS



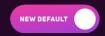
UNDERSTANDING WHAT IS? IS TO UNDERSTAND WHY IS?



THE DANGERS OF SPECIALIZATION, OR WHY GENERAL DUMBNESS IS SMART



"Specialization is for insects" - Robert Heinlein

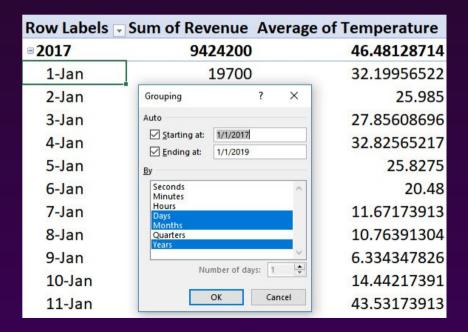


A FICTITIOUS CASE STUDY

VISUALIZING WEATHER DATA

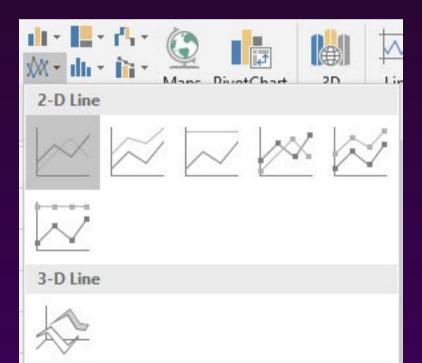


INSERTING DATA



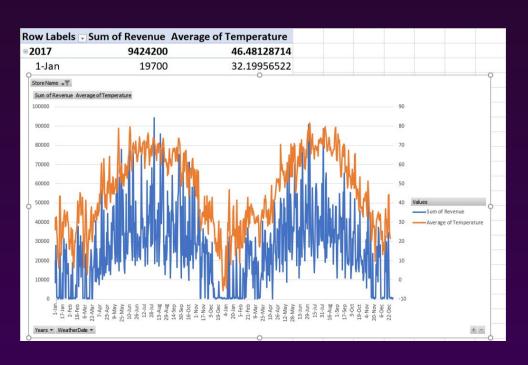


TRANSFORMING DATA





VISUALIZING DATA





WHY IS SPECIALIZATION LIMITED?

KILLER FEATURES MAKES LIFE EASIER ONLY WHEN STAYING INSIDE THE BOX.



UNDERSTANDING WHAT IS? IS TO UNDERSTAND WHY IS?



- MOVING PARTS OVER FIXED PARTS
 - SIMPLICITY OVER COMPLEXITY
 - OPENNESS OVER CLOSENESS
- TRANSPARENCY OVER OPAQUENESS
- FAMILIARITY OVER INNOVATION
- ROBUSTNESS OVER PERFECTION
- SILENCE OVER EXCESSIVE COMMUNICATION



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MODULARITY

```
tr -cs A-Za-z '\n' |
tr A-Z a-z |
sort |
uniq -c |
sort -rn |
sed ${1}q
```





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MODULARITY, SIMPLICITY, OPENNESS







EXAMPLES

move every to name-of-post.html to folder with same name and change to index.html

```
# new-page.sh
#!/bin/bash
FILE=$1
FOLDER="${FILE%.*}"
HTML_FILE="index.html"
mkdir "${FOLDER}" && \
cp "$1" "${FOLDER}"/"${HTML_FILE}"

for f in *.html; do ./new-post.sh $f; done
```

```
# mass-change hrefs
for f in *.html; do sed -e 's!tufte.css!
https://bergsans.net/css/tufte.css!g' $f;
done
# download html, and convert to markdown
curl --silent
https://bergsans.net/essays/2020-03-14-
fold-as-a-universal-form | pandoc --from
html --to markdown_strict -o fold-as-a-
universal-form.md
```



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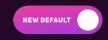
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UNIX IS AS STRONG AS THE TOOLS AT HAND, AND THE SKILL AND CREATIVITY OF THE USER...