

How to make a (really) bad talk

Based on slides by David Patterson & others

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Disclaimer



Why this (bad) talk ?

- To teach you how to make bad talks ?

0. Thou Shalt Challenge the Setup

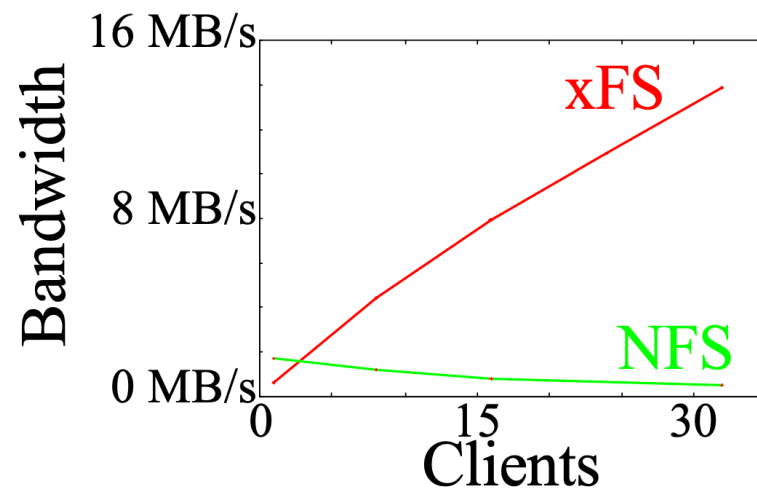
- **Bring your own custom device**
 - Try to project from your favorite FPGA board
- **Use a weird/unpopular presentation format**
 - Powerpoint'78, Barkdown, etc.
- **Do not upload your slides before the event**
 - This is useless, everything always go well

I. Thou Shalt Not Illustrate

■ Favor tables over figures/plots

- Precision is important in a talk
- Your job is **not** to help audience draw on conclusions

Clients	xFS BW	NFS BW
1	5.71995e+05	1.65997e+06
8	4.425325e+06	1.19731e+06
16	1.095445e+07	7.88792e+05
32	1.38927e+07	4.70548e+05



■ Who should you believe ?

- Dijkstra : “Pictures are for weak minds”
- Confucious: “Picture = 10K Words”

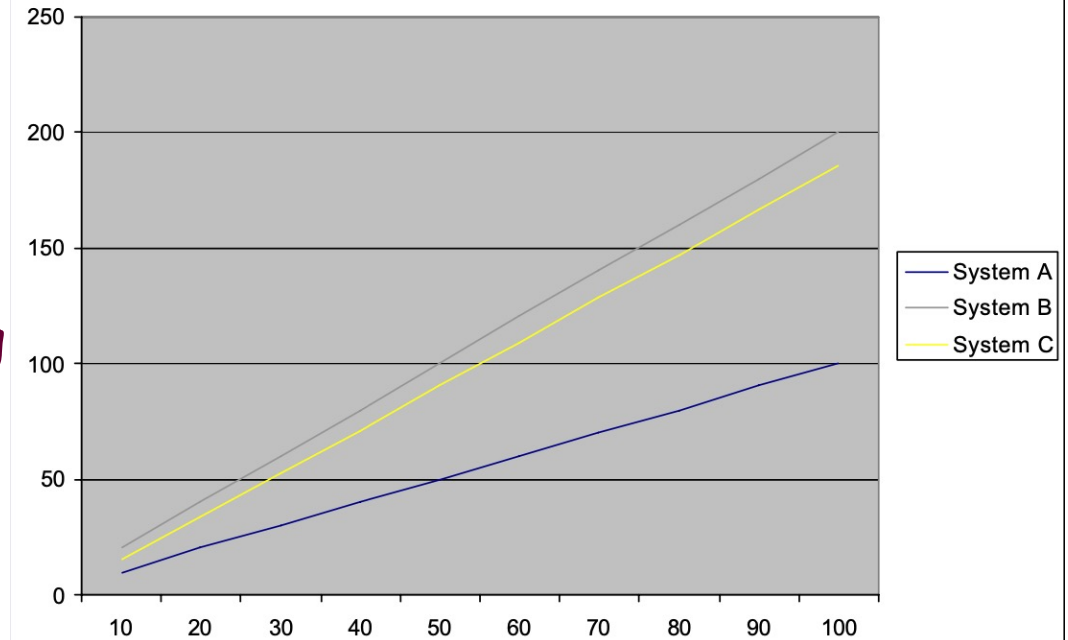
II. Thou Shalt Not Covet Brevity

- **Do not omit technical material from your paper**
 - You did the work; it is important; make sure the audience understands all nuances of approach and also how smart you are
 - Many in audience will never read the paper – they *must* leave the room fully understanding your approach, motivation, and contributions!
- **Include lots of material in each slide**
 - Avoid sentence fragments because they may make you look illiterate.
 - Also, if the slides have full sentences, then you can read the slides verbatim and audience will be able to follow along.
 - Some may say that no item on a slide should span more than one line. Ignore this! Take as much room as you need to make your point. Seriously, if this was a bad idea, powerpoint would certainly not make it possible !
- **Use small fonts to provide information-rich slides.**
 - Fonts smaller than 24 point are fine
 - And the important people sit in front anyhow!
- **Impress audience with difficulty of material**
 - They should leave knowing that you did a lot of work and that it was hard, even if they don't understand all of the details.
- **Avoid moving content to “backup slides”**
 - You probably won't get a chance to show many of them

III. Thou sahl Not be Neat

- Slide layout << ideas!

"I'm a doctor, Jim, not a g designer."



spelling checker = waste of time

- don't worry about consistent capitalization
 Or structure/bullet/etc consistency

* Use **color** and *fonts* to emphasize key ideas

IV. Thou Shalt Animate All Your Slides

- **Keep audience on your point**
- **Surprise them with your train of thought**
 - If they know the point
 - before you make it
 - They may think
 - that they could
 - have figured it out
 - For themselves
- **Will they then realize**
 - How clever you are?

V. Thou Shalt Remain Humble and Demure

- **No eye contact**
 - Bonus: It helps avoid questions
- **Do not distract with motion**
 - Keep arms at side, stay at podium
- **Do not use a laser pointer**
 - Audience should focus on both your speech and your slides
- **Avoid rhetorical flourishes**
 - Keep voice level
 - Avoid raising voice on key point
 - Avoid pause
 - Do not ask rhetorical questions / do not use humor ?

VI. Thou Shalt Not Emphasize Key Points

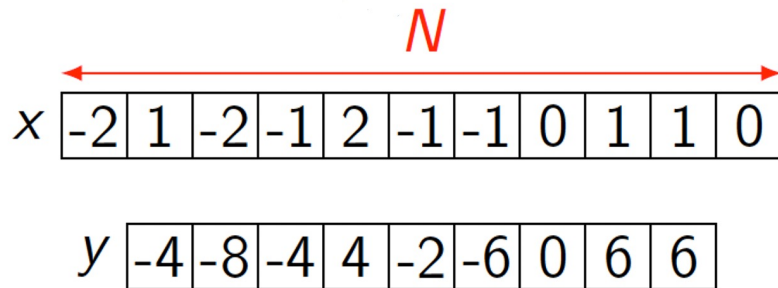
- **Do not introduce talk/talklet/slide**
 - Cover more technical material
- **Make sure you don't have a punchline**
 - Audience will to figure out the « take home message »
- **Do not structure slide**
 - All points are equally important
 - Graphs should speak for themselves

VII. Thou shalt not skip slides in a long talk

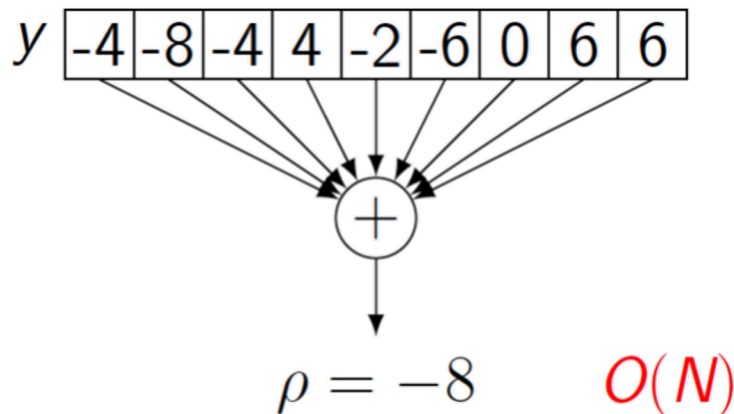
- *You* did the work
 - The research
 - And prepared the slides
 - Audience will be interested in seeing them
 - Even if briefly

ABFT for 1D convolution

- For vectors x and y we have $y_n = \sum_{i=0}^K x_{n+i} \times w_i$



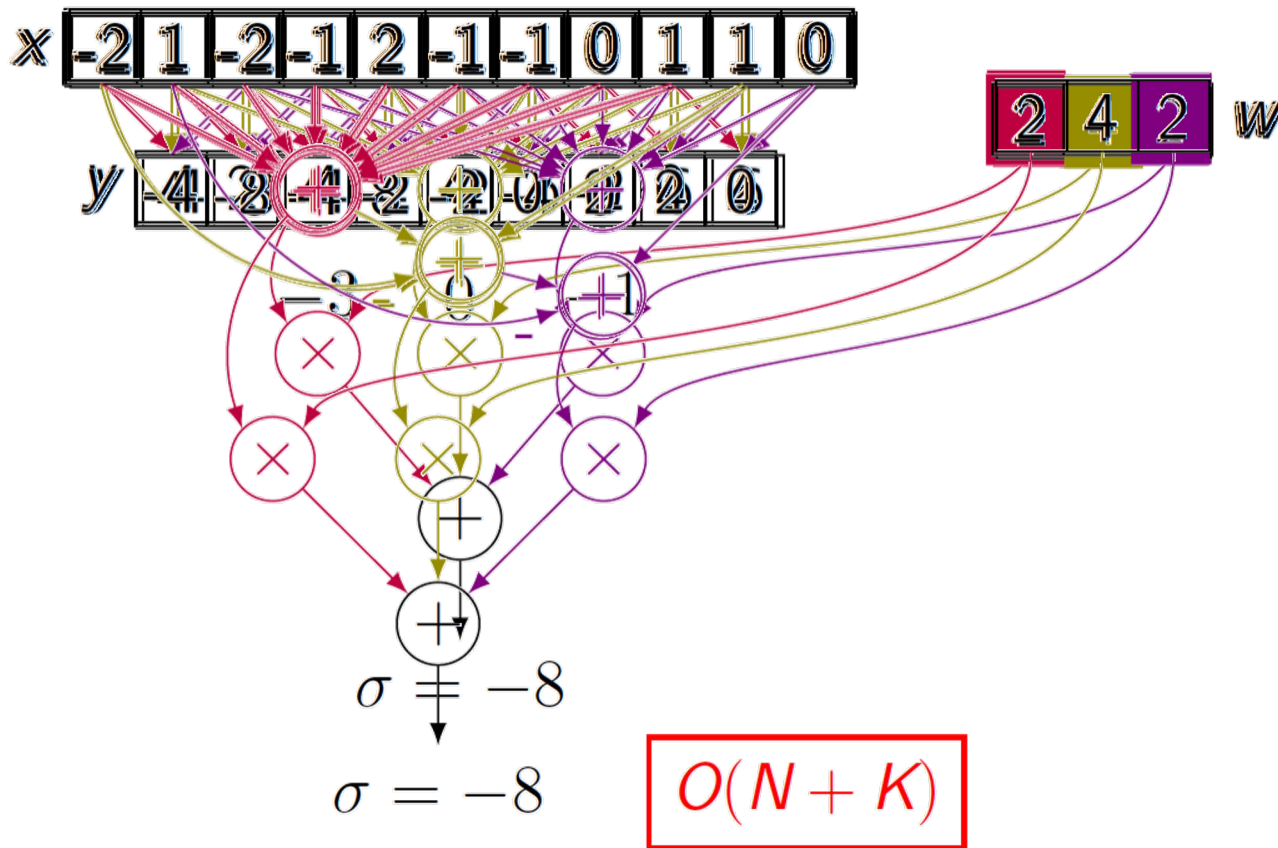
- The **output** checksum is given by $\rho_{out} = \sum_{n=0}^{N-1} y_n$



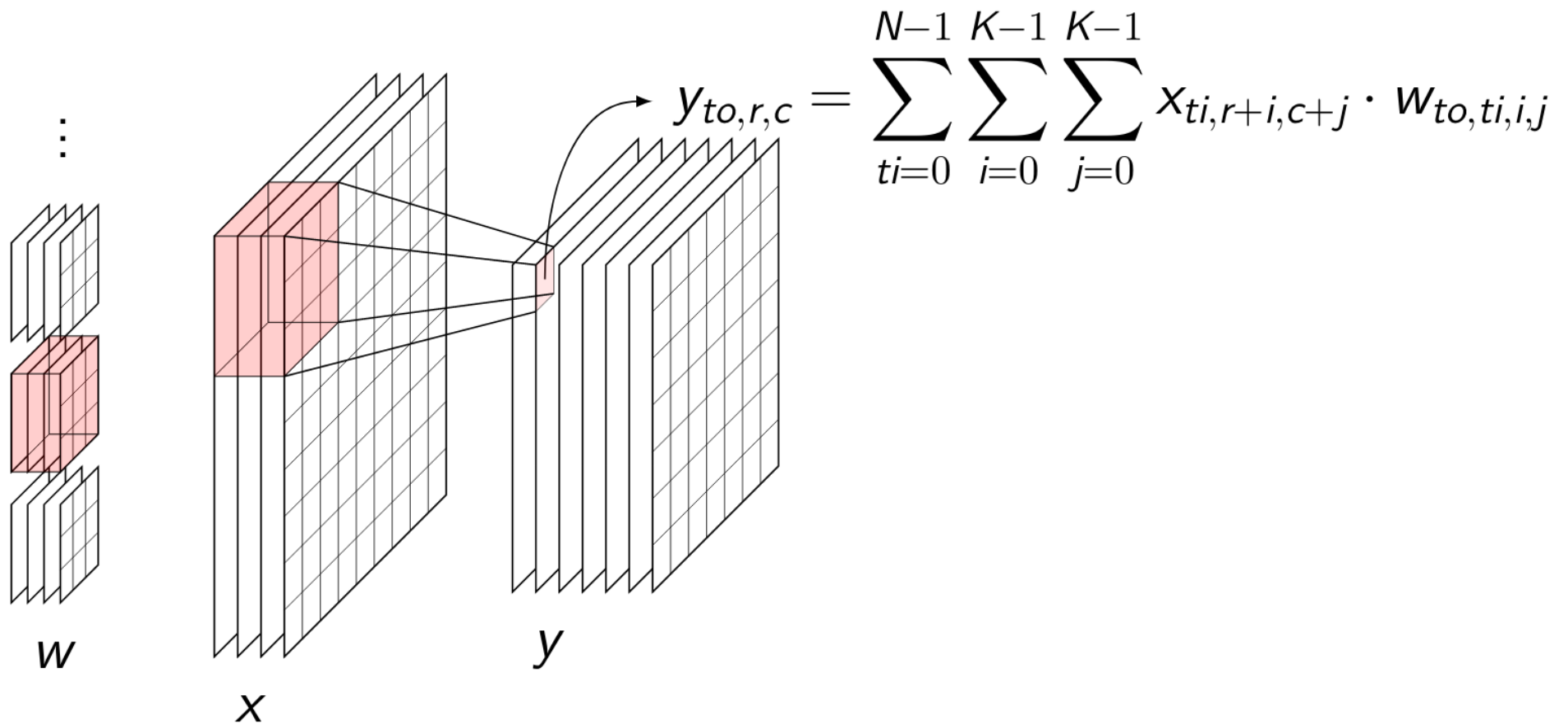
ABFT for 1D convolution

- The *input* checksum

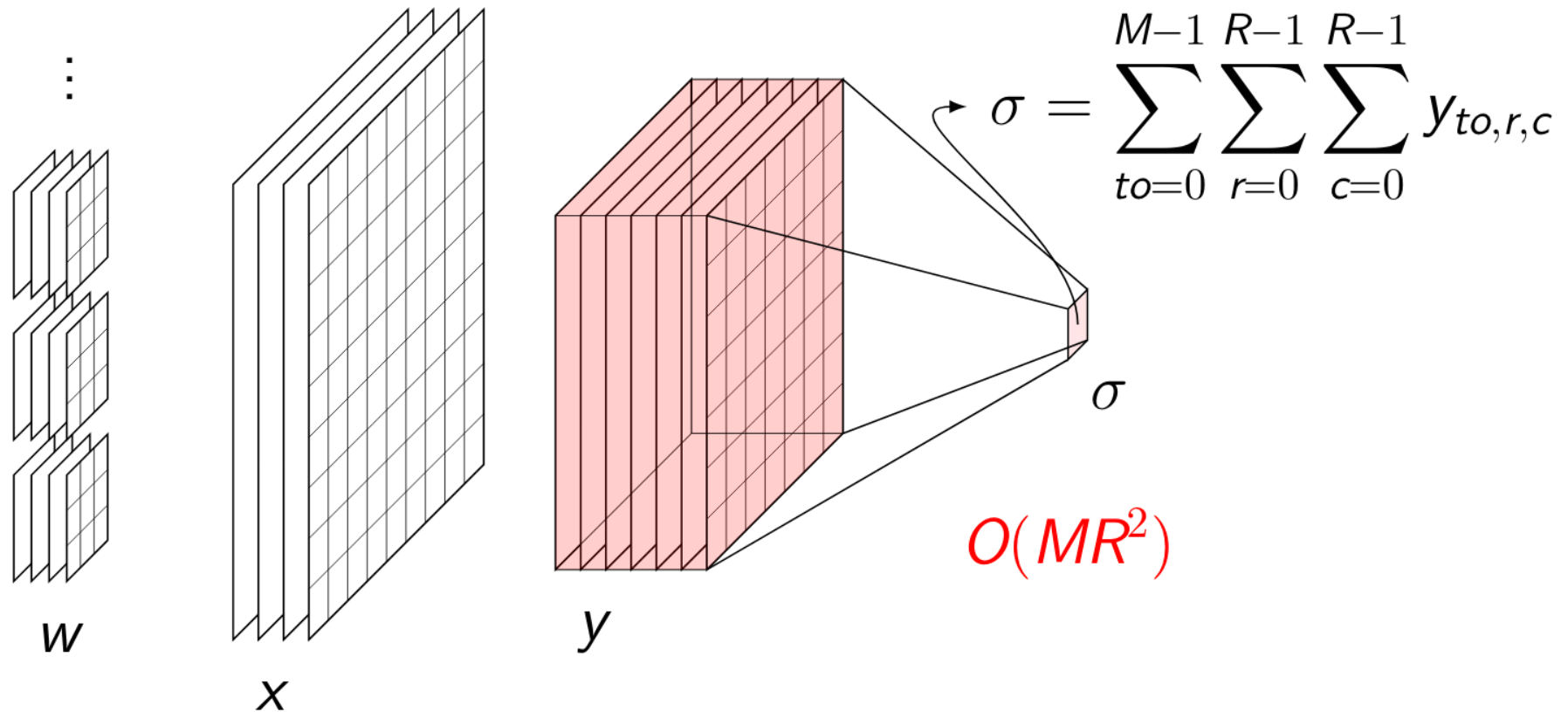
$$\rho_{in} = \sum_{n=0}^{N-1} \sum_{k=0}^K w_k * x_{n+k}$$



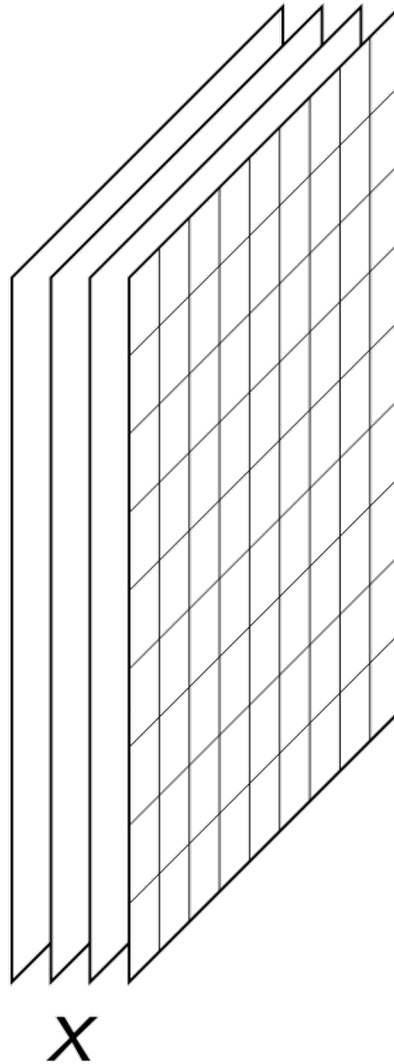
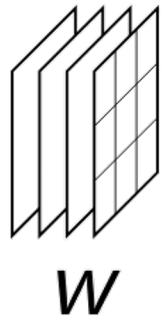
CNN convolution



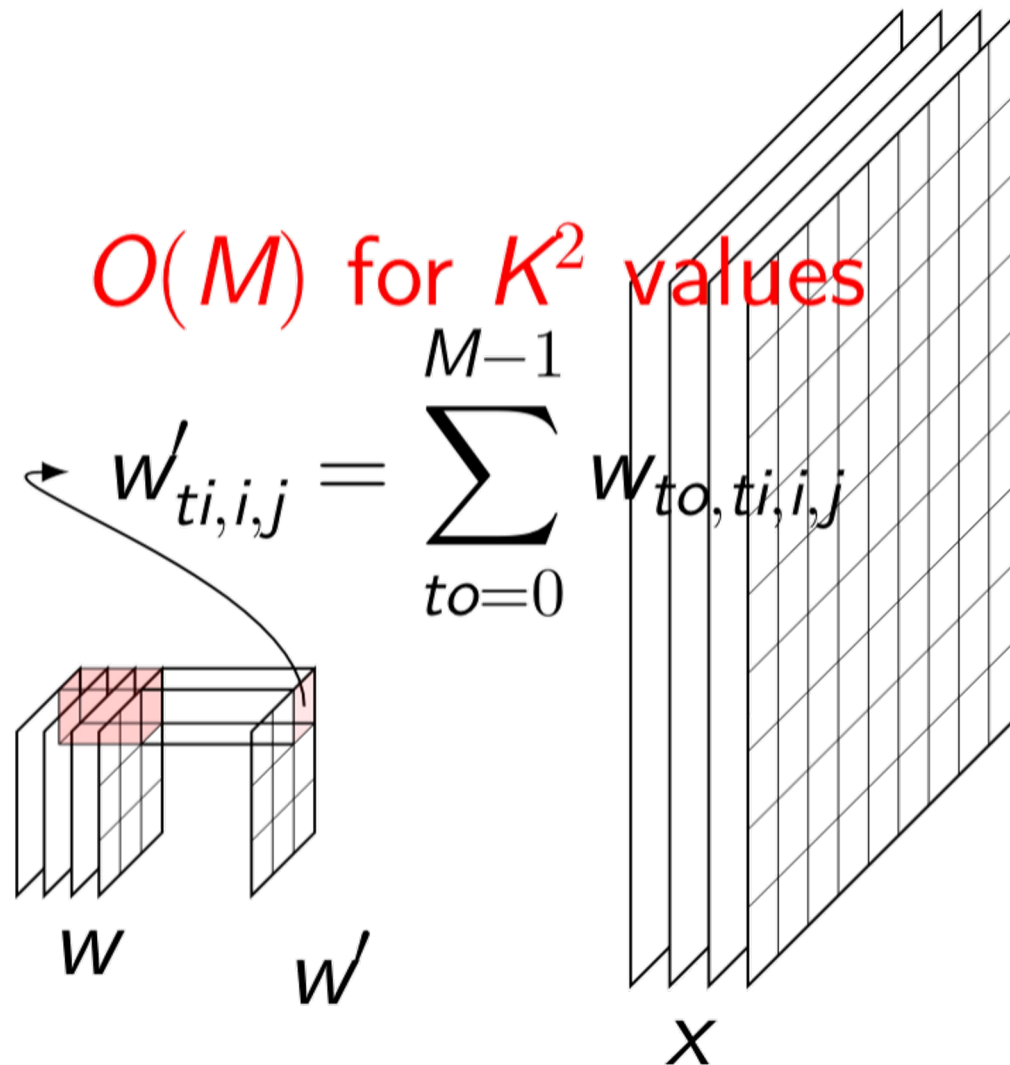
Output checksum



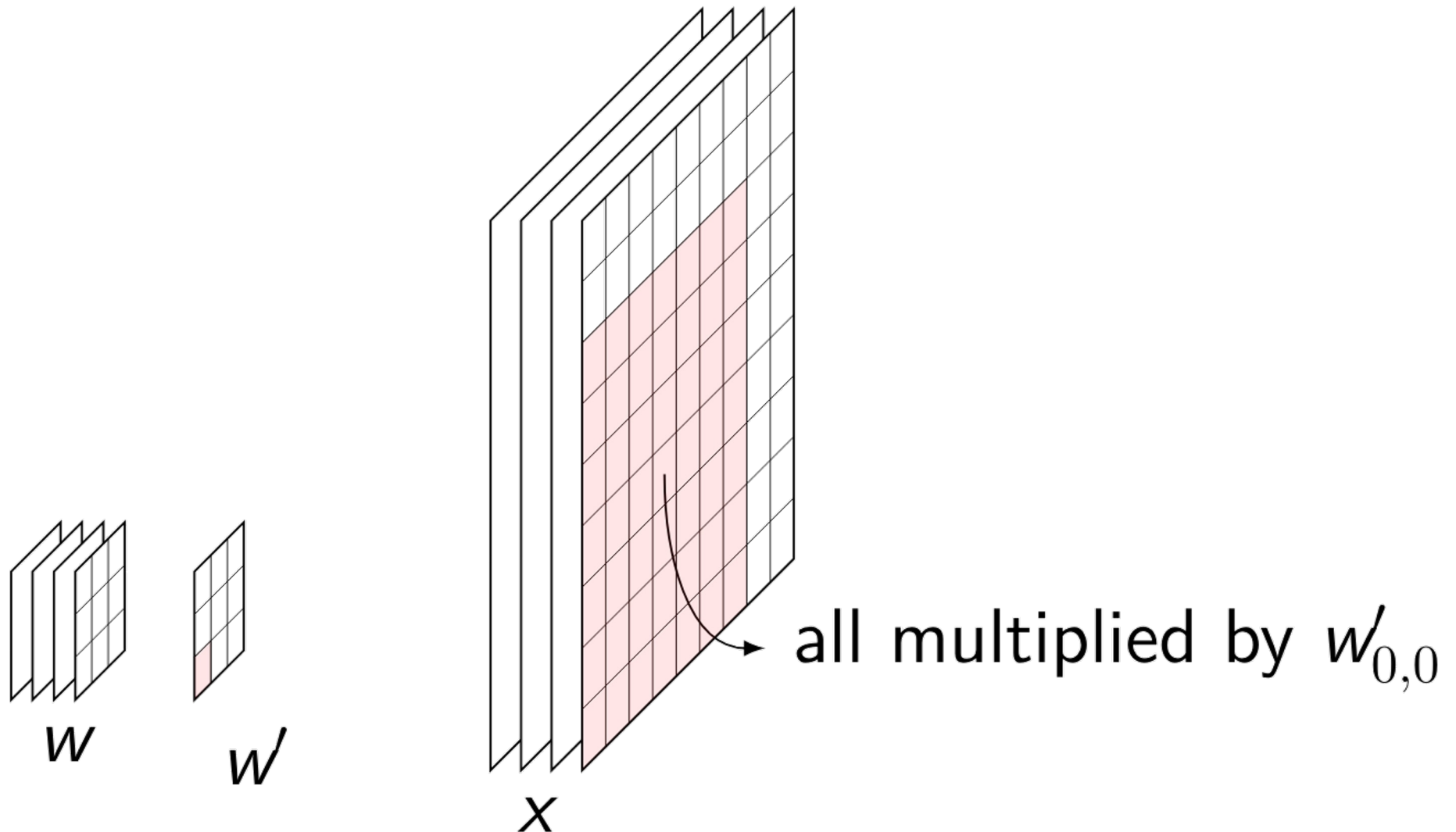
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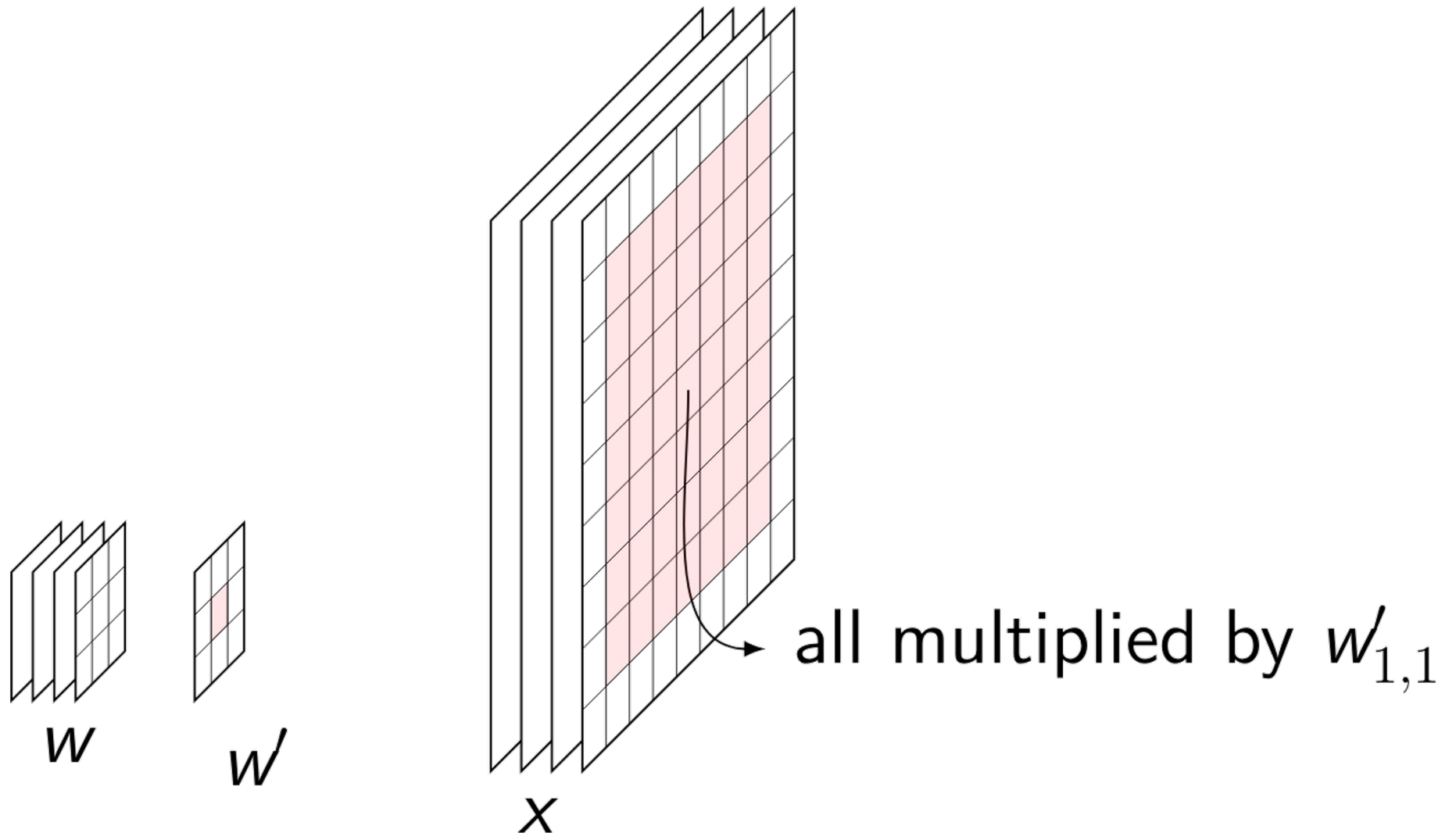
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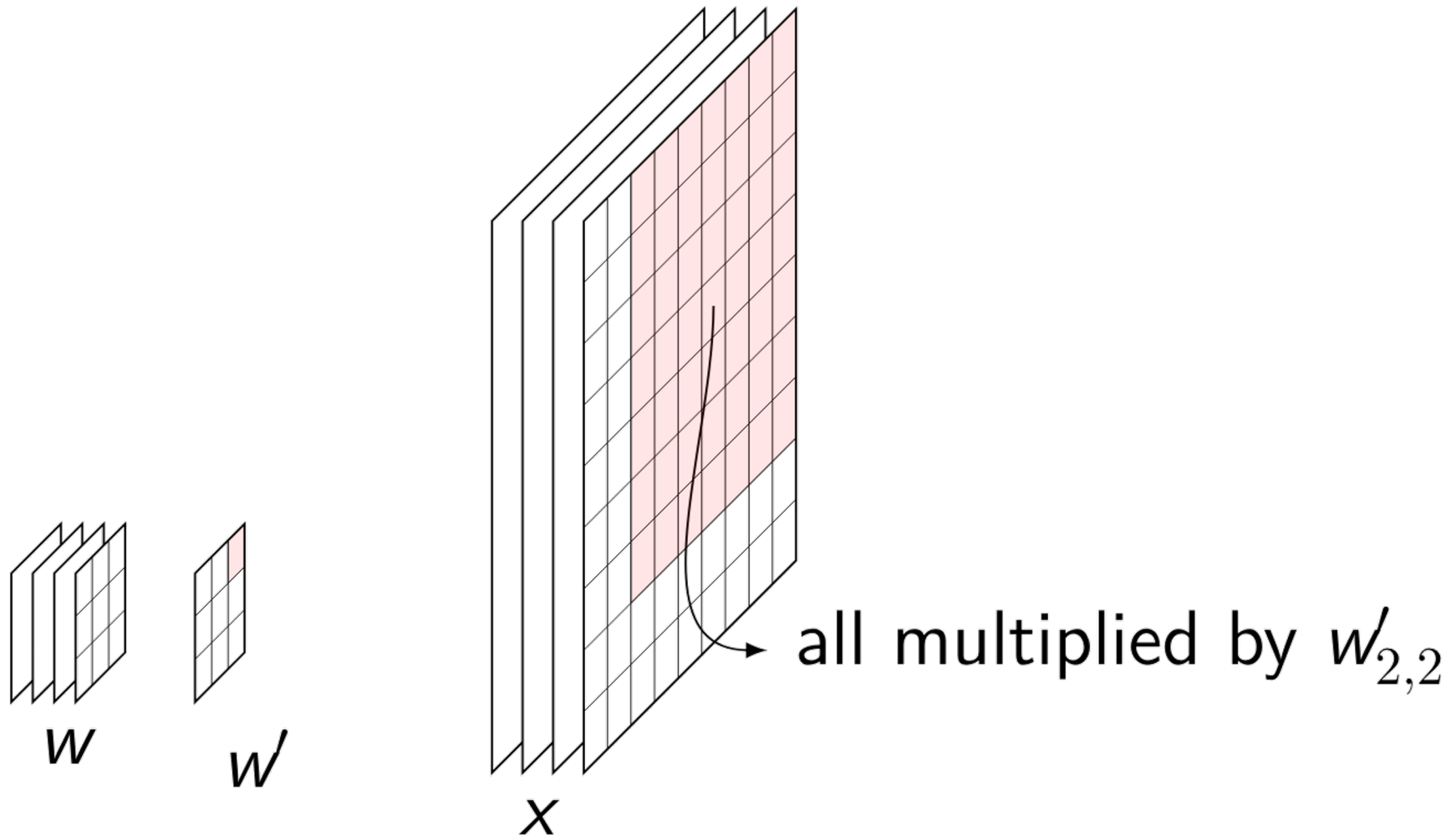
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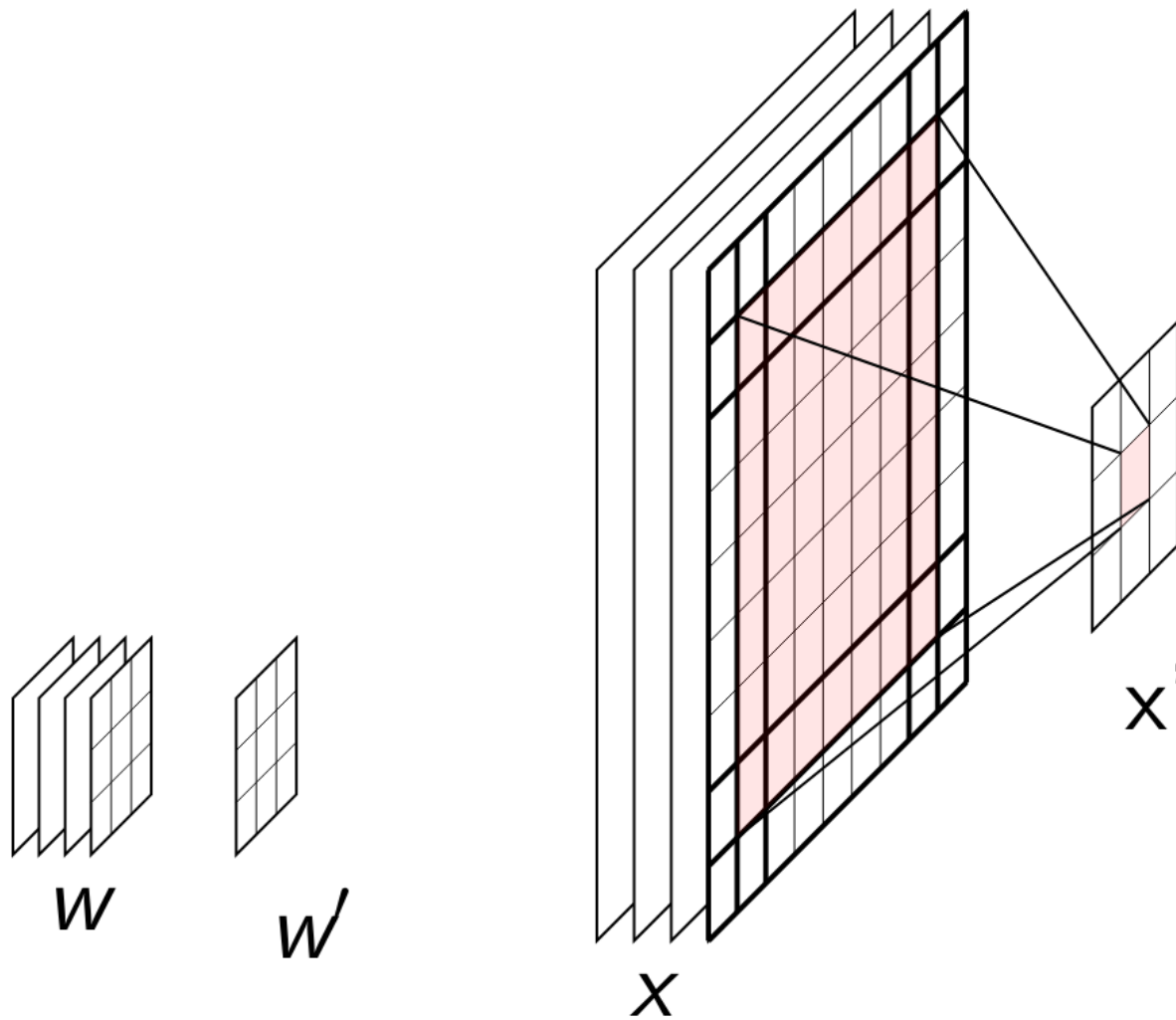
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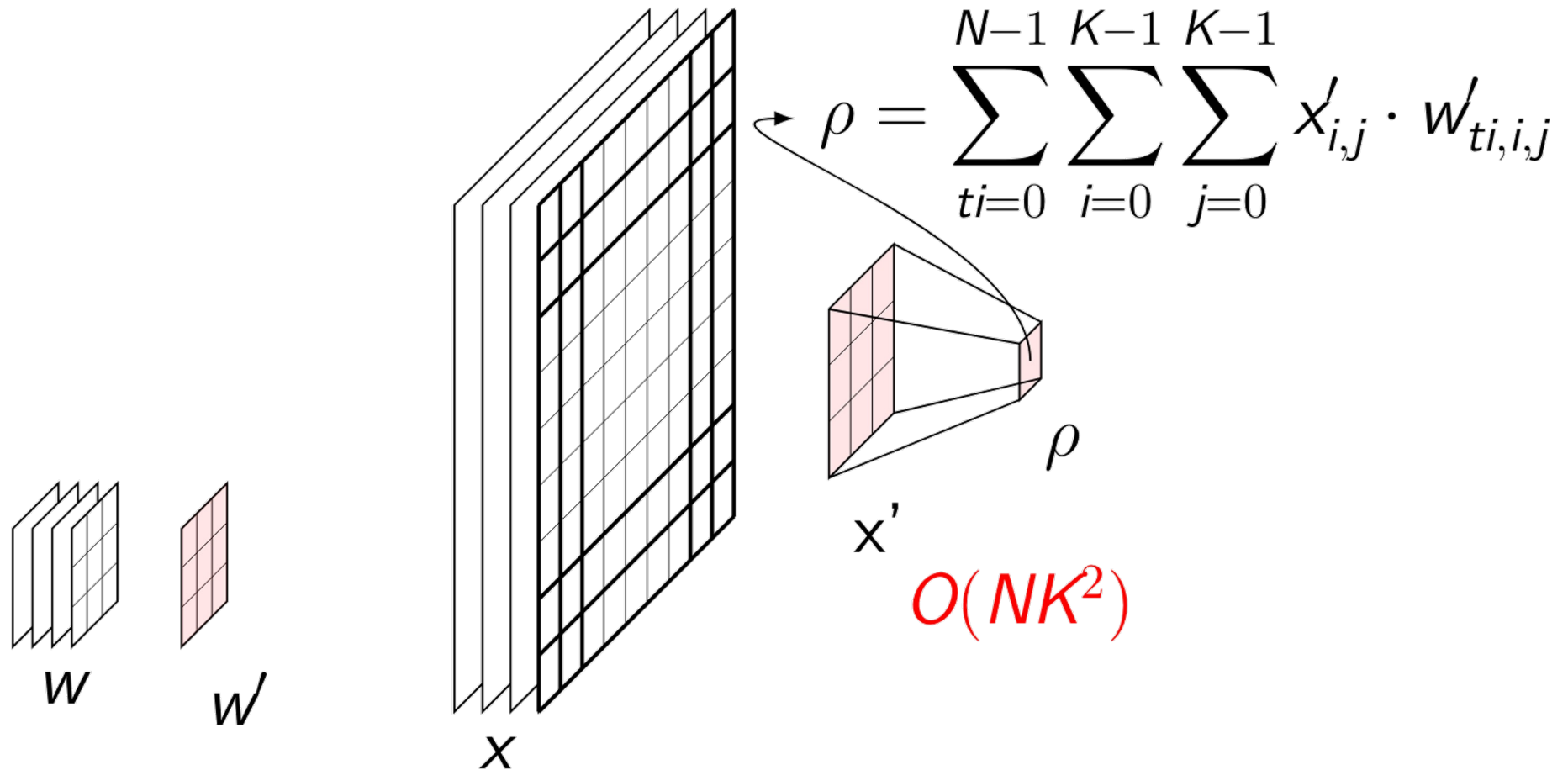
Input checksum



Input checksum



Input checksum



VII. Thou shalt not skip slides in a long talk

- **Audience can stay longer**
 - Your work much more interesting
 - Than the next speakers
 - Than the break or the lunch
- **If necessary, skip conclusions**
 - Just repeating points you've already made

VIII. Thou Shalt Not Plan for Q&A

- **Keep answers spontaneous**
- **No such thing as dumb question**
 - Just dumb questioner
 - Whose fault is it they don't understand?
 - Universal answer:
 - Dismiss question as irrelevant/naïve
 - Everyone remembers a good argument
 - Good publicity for paper
- **Approach**
 - Don't repeat question
 - Start talking quickly + when in doubt, bluff

IX. Thou Shalt Not Prepare Slides Early

- Our flow is illustrated on

Add some nice figure here

IX. Thou Shalt Not Walk In Others' Shoes

- **You are the expert**
 - You've been working on project for years
 - Anyone could present dumbed down version
 - Audience's chance to hear the expert view

- **Don't worry if part of talk "drags"**
 - Present *all* technical details
 - Especially complex formulas

X. Thou Shalt Not Practice

■ Benefits

- Practice wastes Hours
 - Out of several years of research

The Most Important Rule !

- Audience:
 - Experts only (e.g., advisor and group)
- 1 Week is plenty
 - Converge on content the Night before presentation

Alternatives to a Bad Talk

- **Talk = motivate people to read your paper**
 - Also an opportunity to leave a strong impression

- **Resources**
 - The punchline method
 - <http://people.rennes.inria.fr/Tomofumi.Yuki/pline.html>
 - Guide from Markus Püschel (ETH)
 - <https://people.inf.ethz.ch/markusp/teaching/263-2100-ETH-fall17/guide-presentations.pdf>
 - <https://ethz.ch/content/dam/ethz/special-interest/infk/inst-infsec/information-security-group-dam/education/guide-presentations.pdf>