

Privacy and the State I

Privacy Technology in Context

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Administrative

- Subscribe to changes on the wiki
- A word on assumptions
- Setting your shell to ksh, setting your editor to vim. Environment variables

Explanation of server challenge 1

- (Demo)

If we go back in time,
the first definition that
we use of privacy
[comes] from Warren
and Brandeis.”

-Claudia Diaz
([link](#))



Census and Censure in the Bible (ca. 800 BCE)

‘Satan rose up against Israel and incited David to take a census of Israel. So David said to Joab and the commanders of the troops, “Go and count the Israelites from Beersheba to Dan. Then report back to me so that I may know how many there are.” ...

‘But Joab replied, “May the Lord multiply his troops a hundred times over. My lord the king, are they not all my lord’s subjects? Why does my lord want to do this? Why should he bring guilt on Israel?”

‘The king’s word, however, overruled Joab; so Joab left and went throughout Israel and then came back to Jerusalem. Joab reported the number of the fighting men to David: In all Israel there were one million one hundred thousand men who could handle a sword, including four hundred and seventy thousand in Judah.

‘But Joab did not include Levi and Benjamin in the numbering, because the king’s command was repulsive to him. This command was also evil in the sight of God; so he punished Israel.

‘Then David said to God, “I have sinned greatly by doing this. Now, I beg you, take away the guilt of your servant. I have done a very foolish thing.’

‘The Lord said to Gad, David’s seer, “Go and tell David, ‘This is what the Lord says: I am giving you three options. Choose one of them for me to carry out against you.’”

‘So Gad went to David and said to him, “This is what the Lord says: ‘Take your choice: three years of famine, three months of being swept away[a] before your enemies, with their swords overtaking you, or three days of the sword of the Lord—days of plague in the land, with the angel of the Lord ravaging every part of Israel.’ Now then, decide how I should answer the one who sent me.”

‘David said to Gad, “I am in deep distress. Let me fall into the hands of the Lord, for his mercy is very great; but do not let me fall into human hands.”

‘So the Lord sent a plague on Israel, and seventy thousand men of Israel fell dead. And God sent an angel to destroy Jerusalem. But as the angel was doing so, the Lord saw it and relented concerning the disaster and said to the angel who was destroying the people, “Enough! Withdraw your hand.” The angel of the Lord was then standing at the threshing floor of Araunah[b] the Jebusite.

‘David looked up and saw the angel of the Lord standing between heaven and earth, with a drawn sword in his hand extended over Jerusalem. Then David and the elders, clothed in sackcloth, fell facedown.

‘David said to God, “Was it not I who ordered the fighting men to be counted? I, the shepherd, have sinned and done wrong. These are but sheep. What have they done? Lord my God, let your hand fall on me and my family, but do not let this plague remain on your people.”

The census is an old privacy topic that is still with us

- Recent example: 2020 census will include an item for citizenship status
- Affects representation in Congress, appropriation of money (for example, for schools), and so on... .
- Reflects a connection between privacy concern and vulnerable populations

Privacy at America's Beginnings

An early (!) FAQ from 1582

“How are we made Kings?”

A FAQ from 1582

“We must all watch one another, and try out all wickedness. We must privately and openly rebuke the private and open offenders. We must also separate the willful and more grievous offenders, and withdraw ourselves from them.”

Rev. Robert Brown, 1582

- For Puritans in Colonial New England, the church regulated behavior
- Unlike back in England, there were no church-run courts in the Colonies. Guesses why not?
- There were some intrusions of the church into public life...

Privacy-related roles of the Church in public life

- Churches were responsible for taking the census
 - illnesses, births, mortality, employment, mobility
 - dissenters to the Church of England
 - Why might you object to this (as the colonists did, in increasing numbers)
- Tithingmen

Discretionary enforcement

- Written records of the time indicate that tythingmen could inspect private homes. The records also show that the tythingmen seemed not to exercise the vague and broad authority they had been given, instead confining themselves to a few arrests for drunkenness and absences from church services.
- Why might that be? What are the side effects of information gathering in a home?

Privacy-related roles of the Church in public life

- Settling in a New England town did require permission of the inhabitants or their representatives
- Prohibition on living alone, unmarried (including widows, young people)
- Nightwatch
 - Most intrusive in Boston, even there quickly curtailed

Early PET: A good Cudgel apply'd in the Dark

““A good Cudgel apply'd in the Dark is an excellent Medicine for a Malignant Spirit. I know it once Experienced at Boston, with very good success, upon an Old rigged Precisian, one of their Select, who used to be more then ordinary vigilant in discovering every little Irregularity in the Neighborhood; I happened one Night to be pritty Merry with a Friend, opposite to the Zealot's dwelling, who got out of his Bed in his Wast-coat and Drawers, to listen at our Window. My Friend having oft been serv'd so, had left unbolted his Cellar Trap-door, as a Pit-fall for Mr. Busie-Body, who stepping upon it, sunk down with an Outcry like a distressed Mariner in a sinking Pinnacle. My Friend having planted a Cudgel ready, run down Stairs, crying 'Thieves,' and belabour'd Old Troublesome very severely before he would know him. He crying out, 'I am your Neighbor.'”16

More recent examples of “we must all watch one another”

- “if you see something, say something”
- Joseph McCarthy
- Another international example, from the readings?

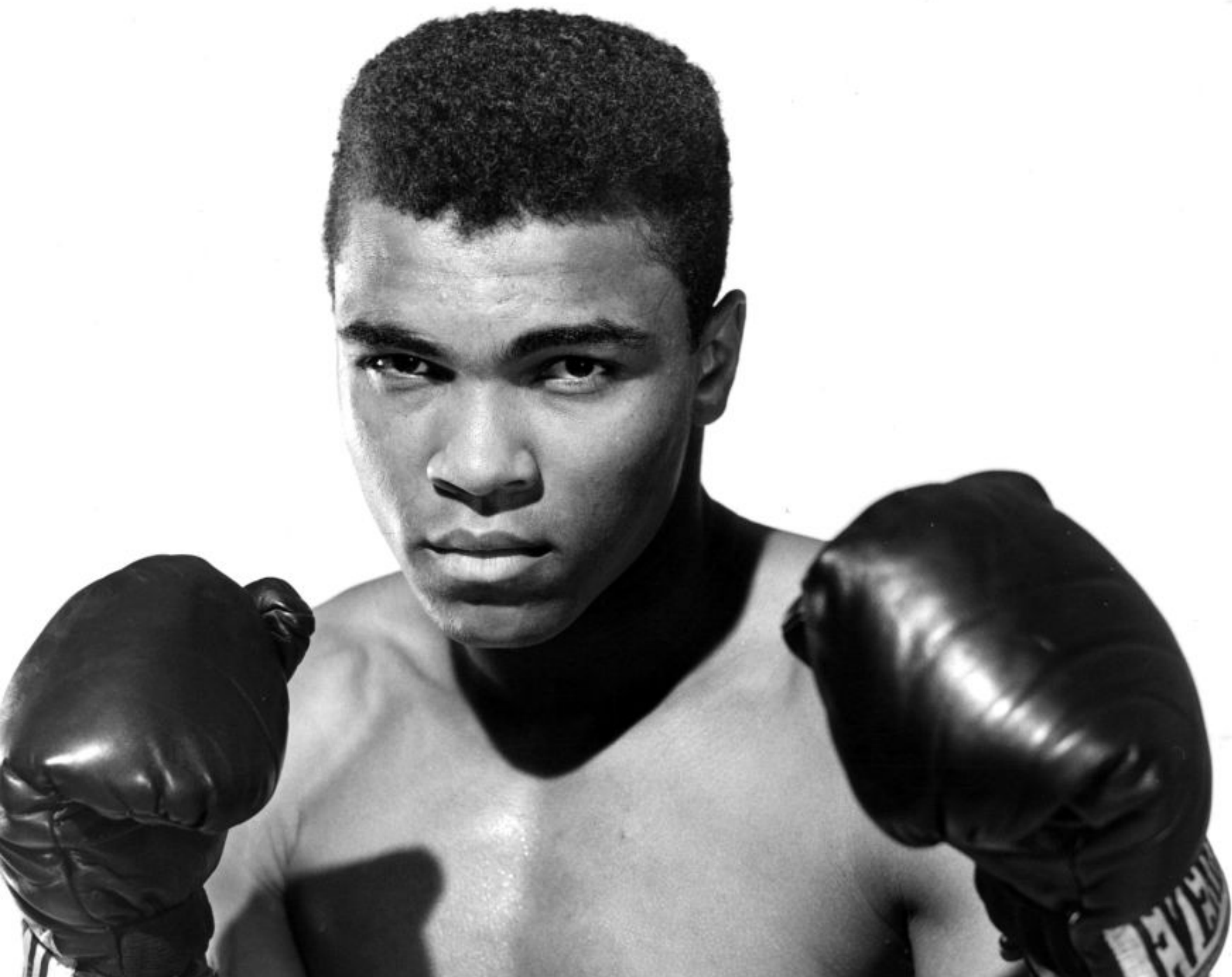
More recent examples of “we must all watch one another”

- “if you see something, say something”
- Joseph McCarthy
- Another international example, from the readings? Stasi (next time)

Privacy Post WWII

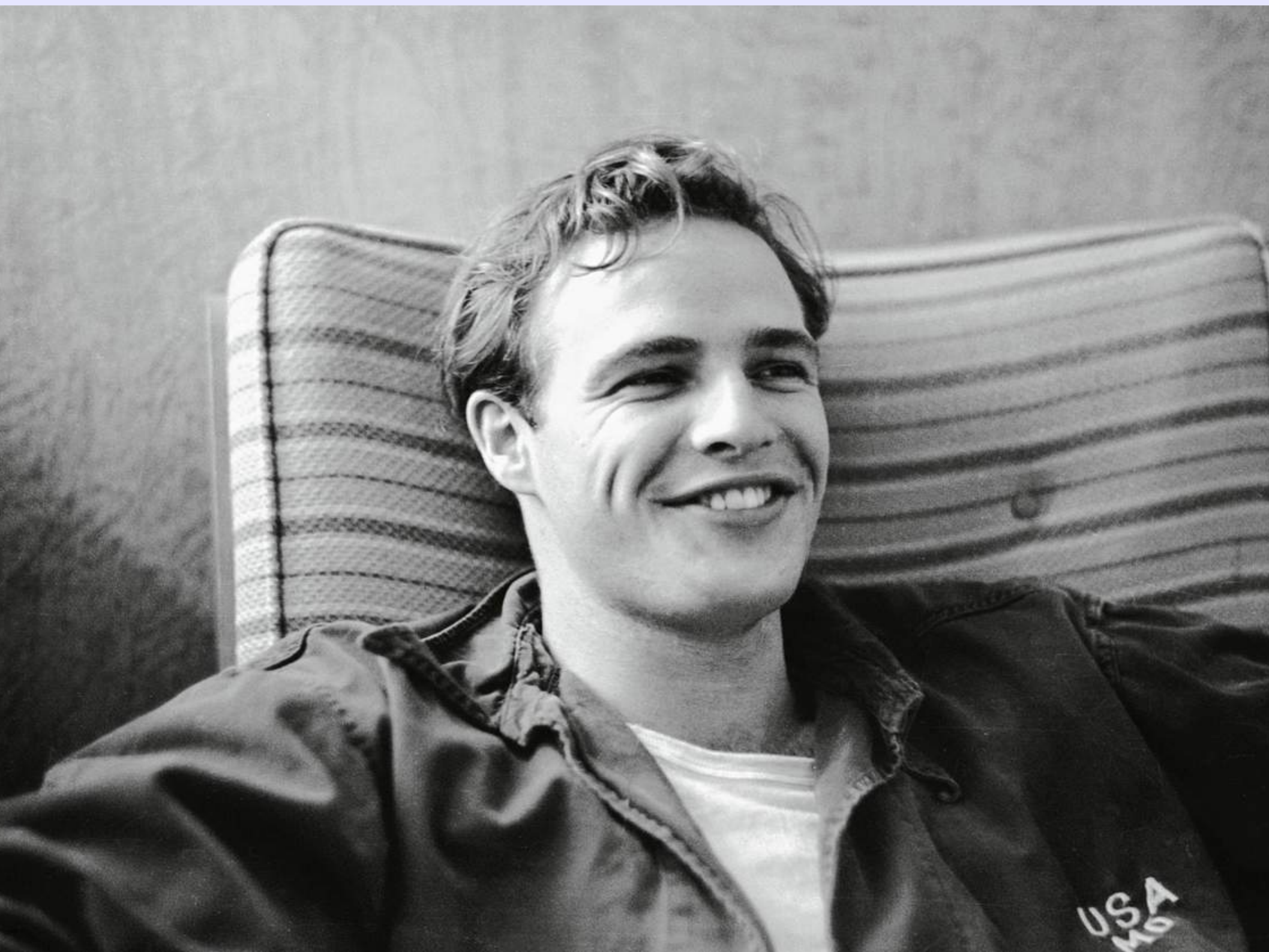
United States













KING,

In view of your low grade, abnormal personal behavior I will not dignify your name with either a Mr. or a Reverend or a Dr. And, your last name calls to mind only the type of King such as King Henry the VIII and his countless acts of adultery and immoral conduct lower than that of a beast.

King, look into your heart. You know you are a complete fraud and a great liability to all of us Negroes. White people in this country have enough frauds of their own but I am sure they don't have one at this time that is any where near your equal. You are no clergyman and you know it. I repeat you are a colossal fraud and an evil, vicious one at that. You could not believe in God and act as you do. Clearly you don't believe in any personal moral principles.

King, like all frauds your end is approaching. You could have been our greatest leader. You, even at an early age have turned out to be not a leader but a dissolute, abnormal moral imbecile. We will now have to depend on our older leaders like Wilkins a man of character and thank God we have others like him. But you are done. Your "honorary" degrees, your Nobel Prize (what a grim farce) and other awards will not save you. King, I repeat you are done.

No person can overcome facts, not even a fraud like yourself. Lend your sexually psychotic ear to the enclosure. You will find yourself and in all your dirt, filth, evil and moronic talk exposed on the record for all time. I repeat - no person can argue successfully against facts. You are finished. You will find on the record for all time your filthy, dirty, evil companions, male and females giving expression with you to your hideous abnormalities. And some of them to pretend to be ministers of the Gospel. Satan could not do more. What incredible evilness. It is all there on the record, your sexual orgies. Listen to yourself you filthy, abnormal animal. You are on the record. You

it is all there on the record, your sexual orgies. Listen to yourself you filthy, abnormal animal. You are on the record. You have been on the record - all your adulterous acts, your sexual orgies extending far into the past. This one is but a tiny sample. You will understand this. Yes, from your various evil playmates on the east coast to and others on the west coast and outside the country you are on the record. King you are done.

The American public, the church organizations that have been helping - Protestant, Catholic and Jews will know you for what you are - an evil, abnormal beast. So will others who have backed you. You are done.

King, there is only one thing left for you to do. You know what it is. You have just 34 days in which to do (this exact number has been selected for a specific reason, it has definite practical significant. You are done. There is but one way out for you. You better take it before your filthy, abnormal fraudulent self is bared to the nation.

- Despite the scale of these abuses, it took Watergate to spur further reform via creation of the Church committee, which investigated the FBI for targeting people for surveillance because of their political beliefs

“the committee noted, every president from Franklin Roosevelt to Richard Nixon improperly used government surveillance to obtain information about critics and political opponents.”

--The Church Committee

“While the declared purposes of these programs were to protect the "national security" or prevent violence, Bureau witnesses admit that many of the targets were nonviolent and most had no connections with a foreign power. Indeed, nonviolent organizations and individuals were targeted because the Bureau believed they represented a "potential" for violence—and nonviolent citizens who were against the war in Vietnam were targeted because they gave "aid and comfort" to violent demonstrators by lending respectability to their cause..”

-- The Church Committee

Or, working together?



This Court has recognized the vital relationship between freedom to associate and privacy in one's associations.... Inviolability of privacy in group association may in many circumstances be indispensable to preservation of freedom of association, particularly where a group espouses dissident beliefs.

NAACP v. Patterson - 357 U.S. 449 (1958)

Daniel Weitzner,
presentation

Europe post WWII



“Although elements of the right to privacy existed prior to the modern era, there was neither a complete nor robust “right to privacy” recognized or protected by law anywhere in the world. The right to privacy truly emerged and evolved in the late twentieth century, especially after World War II.”

Keenan (2005), “Privacy in Modern Times”

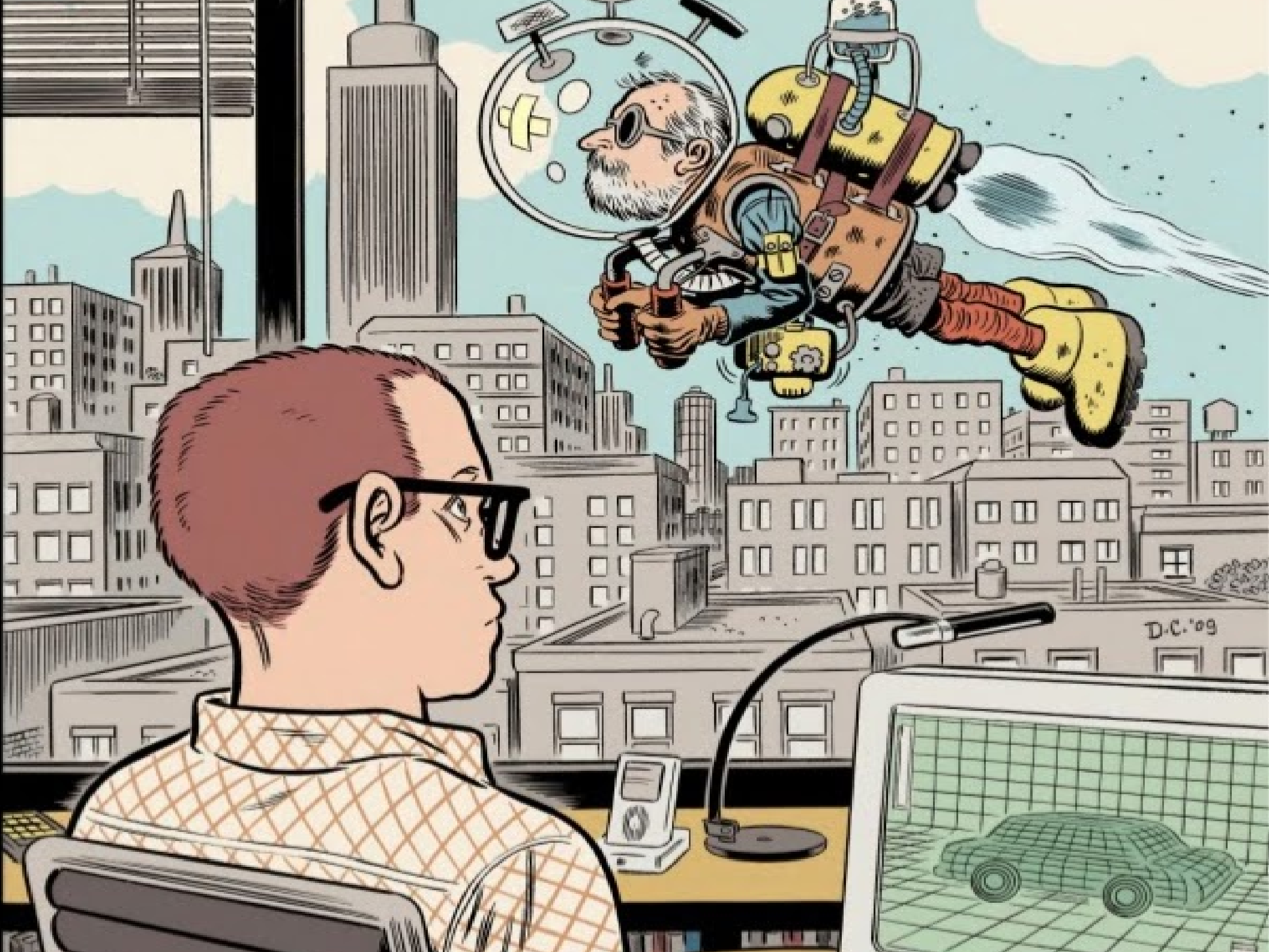
Violations of Privacy for Jews in Europe

- Star of David badges
- Street stops
- Invasion of businesses and homes
- Forced sterilization
- The role of the census
 - National registry of Dutch Jews
 - IBM cooperation

Privacy as Human Right

- Universal Declaration of Human Rights
- European Convention on Human Rights

“the right to privacy has had to contend not only with those who disagree that it should exist and those who ignore it when it suits them but also with increasingly powerful technologies that make it easier to invade people’s private lives and spaces.”



Shell reminders

- Can you find all files named syslog (not syslog.blah), using find? You should find exactly two results, and no error messages
- /tmp/example4 is a setuid binary. What does that mean? (example4.c)
- Change your home directory so that it is not world-readable

Permissions

- In plain english, what are the permissions for
 - `/tmp/example{1,2,3}`?
- `example3` is a directory. What do the mode bits mean there?
- Can you change your home directory so that it is not world-readable?

Redirecting output

- “Ordinary” pipes
 - composition: sends standard output of one command to standard input of the next
 - Each command in the pipe is run as a separate process
 - examples!
- Output redirection with 1> and 2> (3> and 4>...), >>-variants
 - exercise: swap standard out and standard in (tricky), pipe to something, then swap back
- Example1 is a *named* pipe (FIFO)
 - same blocking behavior you know and love
 - example

Ksh scripting: Control constructs

- test
- if-then-else
- while- and until-do
- for-do

Next assignment

- The permissions for mr_phony_pants directory are more restrictive in light of the tongue-lashing he got from the sysadmin for his previous mistakes
- Your task is to keep an eye out for a permissions mistake by mr_phony_pants, and use it to copy his home directory.
- You'll find a file in there that you can use (with some work) to log in as mr_phony_pants

References

- Keenan, K.M. Invasion of Privacy: A Reference Handbook. Contemporary World Issues. ABC-CLIO, 2005.
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- Smith, R.E. Ben Franklin's Web Site: Privacy and Curiosity from Plymouth Rock to the Internet. Privacy Journal, 2000. <https://books.google.com/books?id=Pppc5LgmB9IC>.