# preface

**preface/dickjane**

Cover of Campbell and Sharp, *Dick and Jane: Fun with Our Family*, 1962.

**preface/memex**

“As We May Think” is a 1945 essay by Vannevar Bush in The Atlantic anticipating many aspects of information society.

**preface/zdenka**

Zdeněk Koubek (born Zdena “Zdeňka” Koubková) set world records in running events, winning two medals at the 1934 Women’s World Games and several national titles in 100–800m running, long jump and high jump. In 1936, he underwent gender reassignment surgery and retired from athletics.

**preface/foetus26weeks**

Swedish photographer Lennart Nilsson’s groundbreaking photograph of a fetus in its amniotic sac, featured in *Life* magazine on April 30, 1965.

# introduction

**introduction/bildlilli**

Bild Lilli, a German fashion doll in production from 1955 to 1964, when Mattel acquired the rights and relaunched her as “Barbie.”

**introduction/uncannyvalley**

The uncanny valley.

**introduction/usvoting**

Voters wait in line to cast their ballots on Election Day, November 8, 2016, in Alexandria, Virginia.

**introduction/thestranger**

Seattle’s alt-weekly newspaper *The Stranger*, February 2017.

**introduction/chop**

The empty and barricaded Seattle Police Department headquarters at the heart of the Capitol Hill Autonomous Zone (CHAZ) on June 14, 2020.

**introduction/goodall**

Jane Goodall and a fellow primate in Tanzania’s Gombe National Park.

**introduction/kokogorilla**

Koko gives the “to listen” sign, telling (then graduate student) Penny Patterson she wants to use the phone.

**introduction/alexparrot**

Alex the parrot counts red and blue objects at the behest of Dr. Irene Pepperberg.

**introduction/kokocat**

Koko, known for her fondness of cats, adopted two kittens on her 44th birthday—Ms. Gray (pictured) and Ms. Black.

**introduction/antmarch**

A column of *Eciton* army ants on the march.

**introduction/nativebrunii**

Lantern slide of Woureddy, native of Bruny Island, Tasmania. The 4,000 or so Tasmanians are thought to have been isolated from the Australian mainland for about 10,000 years.

**introduction/nsentinelisland**

North Sentinel Island, the most isolated of the Andaman Islands, with (per the 2018 Indian census) an estimated 39 inhabitants.

**introduction/bulbshop**

Glassblowing in a Dutch lightbulb factory, 1936.

**introduction/nacultureareas**

Map of “culture-areas” in North America by Clark Wissler (1913), who theorized that cultural diffusion explained these vast regions over which closely related artifacts can be found.

**introduction/xmastruce**

Artist’s impression of the Christmas truce of 1914 in *The Illustrated London News*, 1915.

**introduction/idcard**

Some communities are so abstract that they exist only as documents, albeit with consequences.

**introduction/bonobos**

Social gathering of six bonobos at the San Diego Zoo.

**introduction/firestone**

Feminist writer and activist Shulamith Firestone.

**introduction/overviewfx**

Southern Scandinavia lit up at night, as seen from the International Space Station; the Aurora Borealis is visible.

# chapter-01

**chapter-01/handxray**

**chapter-01/palmcomparison**

Supposed abnormalities in the palms of criminals compared with the palms of “less evolved” nonhuman apes, from Lombroso, *L’Uomo Delinquente*, 1897.

**chapter-01/dither**

Michelangelo’s David rendered with dithering, allowing shades of gray to be approximated using only black and white pixels.

# chapter-02

**chapter-02/scissors**

Left-handed and right-handed sidebent scissors.

**chapter-02/residentialschool**

Classroom at the Old Sun Indian Residential School, Blackfoot Reserve in Gleichen, Alberta, Canada, 1945.

# chapter-03

**chapter-03/iamesnaylor**

In 1656, English Quaker James Naylor was publicly tortured and branded on the forehead with a “B” for blasphemer.

**chapter-03/naylor2**

**chapter-03/jewishwomen**

Jewish women undergoing public shaming in Linz, Austria; Kristallnacht, November 1938.

**chapter-03/jonathanwalker**

In 1844, Captain Jonathan Walker’s right hand was branded with “SS” for “Slave Stealer” by a US Marshal for attempting to help seven runaway slaves.

**chapter-03/slavestealer**

An 1845 daguerreotype of Walker’s branded palm.

**chapter-03/sheepfromgoats**

A sixth century mosaic of the Last Judgment in the Basilica of Sant’Apollinare Nuovo, Ravenna, Italy. Notice how right hands are shown, while left hands are concealed.

**chapter-03/lombroso**

Cesare Lombroso, Italian physician, anthropologist, and criminologist.

**chapter-03/lombrosohead**

A couple viewing the head of Lombroso preserved in a jar of formalin at an exhibition in Bologna, 1978.

**chapter-03/baconidiot**

“[C]ontrast the massive foreheads of all giant-minded men—Bacons, Franklins, Miltons, etc., with idiotic heads.” From Fowler and Fowler, *The Illustrated Self-Instructor in Phrenology and Physiology*, 1853.

**chapter-03/fossetteoccipital**

Occipital fossa from *Criminal Man, according to the Classification of Cesare Lombroso, Briefly Summarised by His Daughter Gina Lombroso Ferrero*, 1911.

**chapter-03/woolnerear**

Darwin’s tubercle, from Darwin, *Descent of Man*, 1871.

**chapter-03/monkeyear**

Darwin’s tubercle on a crab-eating macaque.

**chapter-03/criminalear**

Illustration of a “Criminal’s Ear” from Gina Lombroso, *Criminal Man*, 1911.

**chapter-03/fliess**

Sigmund Freud (1856–1939) and Wilhelm Fliess (1858–1928).

# chapter-04

**chapter-04/atomfriend**

Haber, *The Walt Disney Story of Our Friend the Atom*, 1956.

**chapter-04/flintstones**

Hanna-Barbera, *The Flintstones*, 1960–66.

**chapter-04/jetsons**

Hanna-Barbera, *The Jetsons*, 1962–63.

**chapter-04/normanrockwell**

Norman Rockwell (1894–1978), “Freedom From Want,” 1943.

**chapter-04/marynichols**

Portrait of Mary Gove Nichols (1810–1884), American writer, women’s rights activist, hydrotherapist, and vegetarian.

**chapter-04/bradybunch**

From the title sequence of *The Brady Bunch*, season 2, 1970.

**chapter-04/marypoppins**

P.L. Travers’s vision of the ideal help: fictional nanny Mary Poppins, as illustrated by Mary Shepard for *Mary Poppins*, 1934.

**chapter-04/tamarins**

Emperor Tamarin babies ride piggyback on their father or older brother, Schönbrunn Zoo, Vienna, 2021.

**chapter-04/victorianpoverty**

Engraving of London’s infamous Seven Dials slum by Gustave Doré in *London: A Pilgrimage*, 1872.

**chapter-04/poorlaw**

Poster created in response to the controversial 1834 New Poor Law, depicting forced labor and corporal punishment.

**chapter-04/felakuti**

Fela Kuti and his wives.

**chapter-04/draupadi**

The five Pandava brothers with their common consort, Draupadi, by the Ravi Varma Press, ~1910.

**chapter-04/gulistanharem**

Persian emperor Naser al-Din Shah Qajar with some of his 84 wives, from a collection of 19th century photographs at the Golestan Palace in Tehran, Iran.

**chapter-04/spacecolony**

A cylindrical space colony designed to support a population of over a million, as envisioned in the 1970s by Princeton physicist Gerard O’Neill.

# chapter-04.5

**chapter-04.5/donnaharaway**

Cyberfeminist scholar Donna Haraway, from the film *Donna Haraway: Story Telling for Earthly Survival*, 2016.

**chapter-04.5/humboldt**

Humboldt, *Selbstportrait in Paris*, 1814.

**chapter-04.5/scalanaturae**

Illustration of the Great Chain of Being by Diego Valadés, *Rhetorica Christiana*, 1579.

**chapter-04.5/lordbaconstamp**

Lord Bacon, Newfoundland stamp, 1910.

**chapter-04.5/berninirape**

Bernini, *The Rape of Proserpina*, Galleria Borghese, Rome, 1621–22.

**chapter-04.5/humboldtecology**

Humboldt, *Diagram of a Cross-Section of the Earth’s Crust*, 1841.

**chapter-04.5/earthrise**

Earthrise, taken by Apollo 8 astronaut Bill Anders on December 24, 1968.

**chapter-04.5/atalantafugiens**

Michael Maier, Emblema II: “Nutrix ejus terra est” (The Earth is His Nurturer) in *Atalanta Fugiens*, 1617.

**chapter-04.5/zellgaia**

Oberon Zell, *The Millennial Gaia*, 1997.

**chapter-04.5/greeneggone**

The Church of All Worlds, *Green Egg*, Vol. 1, No. 1, 1968.

**chapter-04.5/schizophyllum**

The split gill fungus *Schizophyllum commune*.

**chapter-04.5/margulis**

Lynn Margulis

**chapter-04.5/oberon**

Oberon Zell

**chapter-04.5/zellcouple**

Oberon and Morning Glory, 1974.

**chapter-04.5/collating**

*Green Egg* collating party, 1974.

**chapter-04.5/stirpiculture**

Young women and men born during the Oneida Community’s eugenics program, 1887.

**chapter-04.5/childrenshour**

“The childrens [sic] hour” at the Oneida Community from Ellis, *Free Love and Its Votaries*, 1870.

**chapter-04.5/patriarchypyramid**

Rowan and Gray, “The world-map of patriarchy,” 1987.

**chapter-04.5/churchofallworlds**

**chapter-04.5/greeneggtribute**

Cover of *Green Egg*, No. 163, June 2014.

# chapter-05

**chapter-05/kurdistangrandma**

A grandma and her grandchild, Besaran Village, Kurdistan, Iran, 2017.

**chapter-05/vintagegay**

Three World War I soldiers.

**chapter-05/thisisthelife**

Postcard, ~1910.

**chapter-05/perel**

Belgian psychotherapist and author Esther Perel.

**chapter-05/savage**

American sex advice columnist, author, podcaster, and activist Dan Savage.

**chapter-05/bloomsbury**

The Bloomsbury Group and their purported relationships.

**chapter-05/bidentitycard**

A “Bidentification Card” distributed by the US based Bisexual Resource Center.

# chapter-06

**chapter-06/blackwell**

Elizabeth Blackwell (1821–1910), British physician and first woman to obtain a medical degree in the United States.

**chapter-06/laviniadock**

Lavinia Dock (1858–1956), American nurse, feminist, author, and pioneer in nursing education.

**chapter-06/victorianroyalfamily**

Queen Victoria and the members of the royal family, 1877.

**chapter-06/victorianworkhouse**

Victorian workhouse children at Crumpsall Workhouse, Manchester, England, ~1895–97.

**chapter-06/syrianfamily**

Syrian immigrant children, ~1910–15.

**chapter-06/kalogynomia**

Plate 22 from *Kalogynomia*, by T. Bell, 1821.

**chapter-06/krafftebing**

Richard von Krafft-Ebing (1840–1902), German psychiatrist, pioneering sexologist, and authority on “deviant” sexual behavior and its medico-legal aspects.

**chapter-06/sandor**

Sándor Vay (1859–1918), Hungarian poet and journalist. The case of “Count Sandor V.” is described in Krafft-Ebing’s *Psychopathia sexualis*.

**chapter-06/craniometry**

Professor Robert Burger-Villingen, a “race scientist,” measuring heads at Humbolt University, Berlin, 1930.

**chapter-06/hamlet**

Sarah Bernhardt plays Hamlet, London, 1899.

**chapter-06/gayprotest**

March for equal rights, Philadelphia, July 4, 1967.

**chapter-06/gittingskamenyfryer**

Gay rights activists Barbara Gittings, Frank Kameny, and Dr. H. Anonymous (Dr. John Fryer, member of the American Psychiatric Association) at the APA’s panel on “Psychiatry: Friend or Foe to Homosexuals?”, Dallas, 1972.

**chapter-06/gaycured**

*The Chicago Gay Crusader*, January, 1974.

**chapter-06/bergonicchair**

The “Bergonic chair,” a World War I era device “for giving general electric treatment for psychological effect, in psycho-neurotic cases.”

**chapter-06/heathlab**

Diagram of Dr. Robert Galbraith Heath’s lab at Tulane University showing the patient and instrument room, ~1954.

**chapter-06/headpiece**

Photographs of a patient who underwent Heath’s Deep Brain Stimulation therapy for schizophrenia, showing the plastic headpiece with an electrode connector exposed (left) and with dressing (right), ~1954.

# chapter-07

**chapter-07/kinseyscale**

The Kinsey Scale, as first published in Kinsey et al., *Sexual Behavior in the Human Male*, 1948.

**chapter-07/acebi**

Sketch of a two-dimensional sexual attraction scale, showing how asexuality and bisexuality can be modeled as a continuum.

**chapter-07/vintagelesbian**

A Germantown, NY couple on a porch, 1977.

**chapter-07/vintagelesbians2**

Lovers, date unknown.

**chapter-07/avioniii**

Ader Avion III, an experimental steam-powered monoplane designed and built by Clément Ader between 1892 and 1897, France.

**chapter-07/supersonic**

⚠️ JM: Pending image choice ⚠️

# chapter-08

**chapter-08/kinseyspring**

Sketch of a two-dimensional Kinsey scale, where an imagined person’s “home position” is a point, and the region around the point illustrates their “flexibility.”

**chapter-08/mccarthycosmo**

Painting for *Cosmo*, 1971, by Frank McCarthy.

**chapter-08/demikinsey**

Sketch of a two-dimensional Kinsey scale. Labels show which genders are more typically represented in a region.

# chapter-09

**chapter-09/wildedouglas**

Portrait of Oscar Wilde and Lord Alfred Douglas, May 1893.

**chapter-09/warpeddesire**

Cover of pulp novel, Addams, *Warped Desire*, 1960.

**chapter-09/lesbianbarmap**

JM: placeholder image

**chapter-09/lesbianbarproject**

Comedian Lea DeLaria and Cubby Hole owner Lisa Menichino in the 2021 documentary *The Lesbian Bar Project*.

**chapter-09/londonbrothel**

One of Victorian London’s secret brothels, from “The Swell’s Night Guide Through the Metropolis”, 1841.

**chapter-09/sexworker**

Portrait of a sex worker, Storyville, New Orleans, by E. J. Bellocq, ~1912.

**chapter-09/syphilis**

Watercolor drawing of severe lesions on the head of a man suffering from syphilis, by Christopher D’ Alton, 1862.

**chapter-09/syphilisdeathbed**

caption text

**chapter-09/antimasturbationpatent**

caption text

# chapter-10

**chapter-10/pronounpins**

JM: placeholder image, needs edit ?

# chapter-11

**chapter-11/intersexbirthcert**

**chapter-11/binoculars**

**chapter-11/homology**

BA: Choose one

**chapter-11/quigley**

JM: Insert animation here

**chapter-11/nettiestevens**

**chapter-11/chimericrose**

**chapter-11/chimericcat**

**chapter-11/chimericpeacock**

JM: Found a high res version, but we’ll need permission to use

**chapter-11/taylormuhl**

**chapter-11/ais**

**chapter-11/hammondpreface**

JM: will need treatment

**chapter-11/hypospadiasbefore**

From “Genital Abnormalities, Hermaphroditism, and Related Adrenal Diseases”, Hugh Hampton Young, 1937

**chapter-11/hypospadiasafter**

BA: Pick one

**chapter-11/enlargedclitoris**

From “Genital Abnormalities, Hermaphroditism, and Related Adrenal Diseases”, Hugh Hampton Young, 1937

**chapter-11/amputationpassage**

BA: some kind of treatment, crop left box (see slides)

**chapter-11/anniesprinkle**

# chapter-11.5

**chapter-11.5/linguistic**

JM: Needs crop; see slides

**chapter-11.5/youngjanetframe**

**chapter-11.5/johnmoney1946**

Scanned from John Money: A Tribute (on the occasion of his 70th birthday), © 1991 by The Haworth Press

**chapter-11.5/seacliffplan**

**chapter-11.5/seacliffnurses**

**chapter-11.5/paraphilias**

**chapter-11.5/gidschematic**

BA: pick one JM: jpg added of 2085.heic, as placeholder

**chapter-11.5/sextable**

BA: There are closeups of the parts; the idea is to combine these into a single accordioned-out image with all 6 segments. Fold marks are OK. Text a bit small OK, though should be more or less legible. JM: placeholder image; see gdrive for all files Source: Giant long “fusebox settings” table from Overzier, Intersexuality, 1963. The article is C. Overzier, Mainz, “Methods of Clinical Investigation”, p. 173

**chapter-11.5/healthiness**

**chapter-11.5/lobotomy**

**chapter-11.5/moneyframe1987**

Scanned from John Money: A Tribute (on the occasion of his 70th birthday), © 1991 by The Haworth Press

**chapter-11.5/lavenderreport**

**chapter-11.5/chromosomesgonads**

JM: combine (see slide 178)

**chapter-11.5/stanley**

**chapter-11.5/andreaboy**

JM: crop (see slide 180)

**chapter-11.5/andrea**

JM: crop (see slide 181)

**chapter-11.5/twins**

BA: though it’s rather green, let’s fix color

**chapter-11.5/youngreimer**

**chapter-11.5/genderfeedback**

Scanned from John Money: A Tribute (on the occasion of his 70th birthday), © 1991 by The Haworth Press

**chapter-11.5/tomboyism**

**chapter-11.5/reimerselfportrait**

**chapter-11.5/davidreimer**

**chapter-11.5/reimermarriage**

**chapter-11.5/moneyapartment**

**chapter-11.5/moneycollection**

# chapter-12

**chapter-12/boviepatent**

BA: electrocautery device, from original patent.. 3 figures; would be fun to scrolljack from the first to the second, they overlay!

**chapter-12/antiquebovie**

**chapter-12/artificialvagina**

**chapter-12/sexratiomap**

**chapter-12/sekundar**

BA: pick one, crop

**chapter-12/intersexrightsmap**

JM: Update to version from Scott

**chapter-12/rosie**

**chapter-12/intersexprotest**

**chapter-12/hermafrodite**

**chapter-12/hijra**

**chapter-12/wewa**

# chapter-13

**chapter-13/priscilla**

A still from Priscilla, Queen of the Desert

**chapter-13/invertido**

From “La Mala Vida en Buenos Aires”

**chapter-13/buckangel**

# chapter-14

**chapter-14/turing1950**

**chapter-14/turing**

**chapter-14/camel**

**chapter-14/dromedary**

**chapter-14/pentlandface**

BA: Note the original PDF is pretty crude; also the PNG I captured needs some stretching horizontally, as shown to the left, to make the face proportions normal. Caption: Average face from Pentland 1991

Turk, Matthew A., and Alex P. Pentland. “Face recognition using eigenfaces.” In Proceedings. 1991 IEEE computer society conference on computer vision and pattern recognition, pp. 586-587. IEEE Computer Society, 1991.

**chapter-14/mikemikeface**

**chapter-14/galton**

**chapter-14/galtoncomposite**

JM: will require cropping and making a composite; caption: From Galton, Inquiries Into Human Faculty and Its Development, 1883.

**chapter-14/galtoncriminality**

Francis Galton’s attempts to use multiple exposure portraiture to reconstruct “criminal types”. From Galton, Inquiries Into Human Faculty and Its Development, 1883.

**chapter-14/eigenfaces**

BA: animate— crossfade 1, 2, 3, 4 with “component 1”, “component 2”, etc. below

**chapter-14/wuzhang**

BA: animate also, three frames showing top non-“criminal”, bottom “criminal”

**chapter-14/prendergast**

BA: probably we want prendergast and lips side by side

**chapter-14/lips**

**chapter-14/todorov**

**chapter-14/wangkosinski**

BA: crop and re-add labels in high res and with appropriate typography

**chapter-14/antigaymap**

**chapter-14/selfie**

BA: Can we morph it on scroll??? In the images folder I have the two original shots.

**chapter-14/rocine**

**chapter-14/mugshots**

# chapter-15

**chapter-15/target**

JM: Possibly show alongside original tweet

**chapter-15/tocalife**

**chapter-15/phrenologicalbust**

**chapter-15/babbage**

**chapter-15/lovelace**

Margaret Sarah Carpenter (1793–1872), Portrait of Ada Lovelace, 1836. Source: https://commons.wikimedia.org/wiki/File:Ada\_Lovelace.jpg

**chapter-15/criminallesbians**

from Lombroso, Donna delinquente

**chapter-15/hilaryhahn**

**chapter-15/agriculture**

**chapter-15/hunt**

**chapter-15/powerloom**

**chapter-15/housework**

JM: pick from the two

**chapter-15/najell**

**chapter-15/artificialwomb**

**chapter-15/boeree**

**chapter-15/faceapp**

BA: a morph would be good; JM: see mosaic in slides

# chapter-16

**chapter-16/tataouineatnight**

**chapter-16/moseisley**

**chapter-16/oola**

**chapter-16/beebo**

Lost, lonely, boyishly appealing — this is Beebo Brinker — who never really knew what she wanted — until she came to Greenwich Village and found the love that smoulders in the shadows of the twilight world

**chapter-16/bathhouse**

**chapter-16/monticello**

**chapter-16/interstates**

**chapter-16/smallfarming**

**chapter-16/suburb**

**chapter-16/castro**

**chapter-16/worldsfair**

# chapter-17

**chapter-17/princehenry**

**chapter-17/streetscene**

**chapter-17/packard**

**chapter-17/redlining**

JM: Blaise gave quite a few alts for this one

**chapter-17/blackfarmers**

**chapter-17/jesusland**

The “Jesusland” map (JM: placeholder, awaiting map from Scott)

**chapter-17/votersuppression**

# chapter-18

**chapter-18/notke**

**chapter-18/danse**

BA: There are a cycle of Danse Macabre engravings in this chapter; this is the first, invoked when describing the cycle. (JM color alt available too)

**chapter-18/malthus**

JM: There may be an uncropped version available too

**chapter-18/hongliangji**

**chapter-18/danseploughman**

The Plowman from Holbein’s Simolachri, Historie, e Figure de la Morte, 1549 (BA: When pushing the plow mentioned in Malthus)

**chapter-18/dansechild**

The Child

**chapter-18/dansefarmer**

Adam Tills the Soil

**chapter-18/san**

**chapter-18/sami**

**chapter-18/agriculturalland**

**chapter-18/plague**

**chapter-18/triumphdeath**

**chapter-18/deathchess**

BA: Choose one

**chapter-18/farmingmachines1**

JM: Several to choose from / merge

**chapter-18/farmingmachines2**

JM: Choose one

**chapter-18/babyboom**

JM: Choose one

**chapter-18/ampule**

**chapter-18/penicillin**

**chapter-18/penicillinsaves**

**chapter-18/vd**

**chapter-18/bothhadsyphilis**

**chapter-18/tractorharvest**

**chapter-18/arableland**

JM: also consult pdf to take your own screenshots

**chapter-18/worldmodel**

**chapter-18/carryingcapacity**

JM: crop & combine plots; see reference slide

**chapter-18/co2**

**chapter-18/standardrun**

JM: you may wish to do the screenshot for this one (see pdf linked above)

**chapter-18/meadows**

# chapter-19

**chapter-19/condom**

**chapter-19/thepill**

**chapter-19/birthcontrolreview**

Birth Control Review, November 1923, in The Selected Papers of Margaret Sanger

**chapter-19/farmchild**

**chapter-19/factorychildren**

JM: Choose one

**chapter-19/bigfamily**

**chapter-19/charlottesville**

**chapter-19/sanger**

# chapter-20

**chapter-20/dragons**

**chapter-20/wildpostcard**

**chapter-20/farmpostcard**

JM: blaise included an alt farm photo

**chapter-20/factorypostcard**

**chapter-20/villagepostcard**

JM: choose one

**chapter-20/viewmaster**

**chapter-20/ruinstown**

**chapter-20/ruinsitaly**

**chapter-20/hashima**

**chapter-20/akiya**

**chapter-20/robert**

JM: choose one

**chapter-20/ruinsfarm**

**chapter-20/charlottesweb**

JM: choose one

**chapter-20/shadyglade**

Bill Peet, Farewell to Shady Glade (JM: screenshot from archive.org, see slide)

**chapter-20/robotfactory**

JM: choose one

**chapter-20/lightsout**

**chapter-20/robotport**

**chapter-20/containership**

**chapter-20/datacenter**

JM: microsoft holds copyright to this photo, perhaps seek alternatives

**chapter-20/amazonwarehouse**

**chapter-20/amazoncage**

**chapter-20/agrobot**

**chapter-20/droids**

**chapter-20/fanucarm**

**chapter-20/waymo**

**chapter-20/cowtraffic**

**chapter-20/mumbaitraffic**

**chapter-20/roadtrain**

**chapter-20/bigfarmbots**

**chapter-20/farmdrone**

**chapter-20/glowinggreenhouse**

**chapter-20/greenhouses**

**chapter-20/communitygarden**

**chapter-20/rooftopgreenhouse**

**chapter-20/autoverticalfarm**

JM: choose one, perhaps both?

**chapter-20/wildlifecorridor**

JM: choose one

**chapter-20/greenbelt**

**chapter-20/climatemigration**

# chapter-21

**chapter-21/stelarc**

**chapter-21/strike**

**chapter-21/jetsonbutton**

# chapter-19