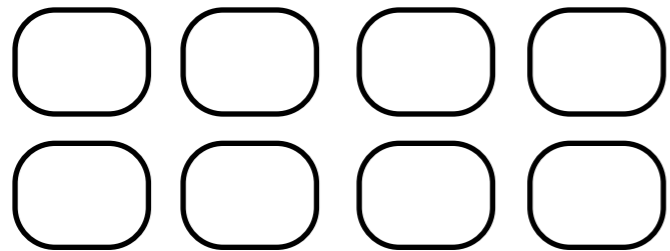


Gallery

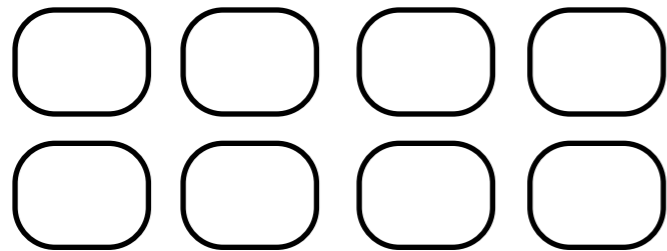


Screencasts

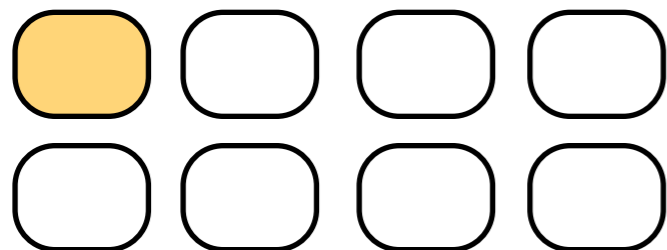
caDNAAno

Maya
animations

Gallery



Nanotubes



Cages

Machines

2D & 3D crystals

DNA nanotube

Design

upload / edit

Animations

upload / edit

protocols used

Data / Gels

upload / edit

EM

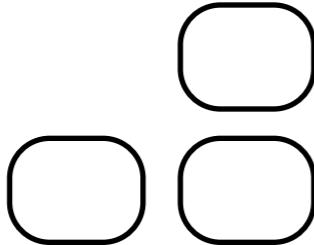
upload / edit

Other Links

Publications

Articles
References

designs will be uploaded in XML format
clicking here will take you to a Flash-based
viewer of the design, where you can zoom around, create
new animations, clone to make a new design,



Screencasts

intro

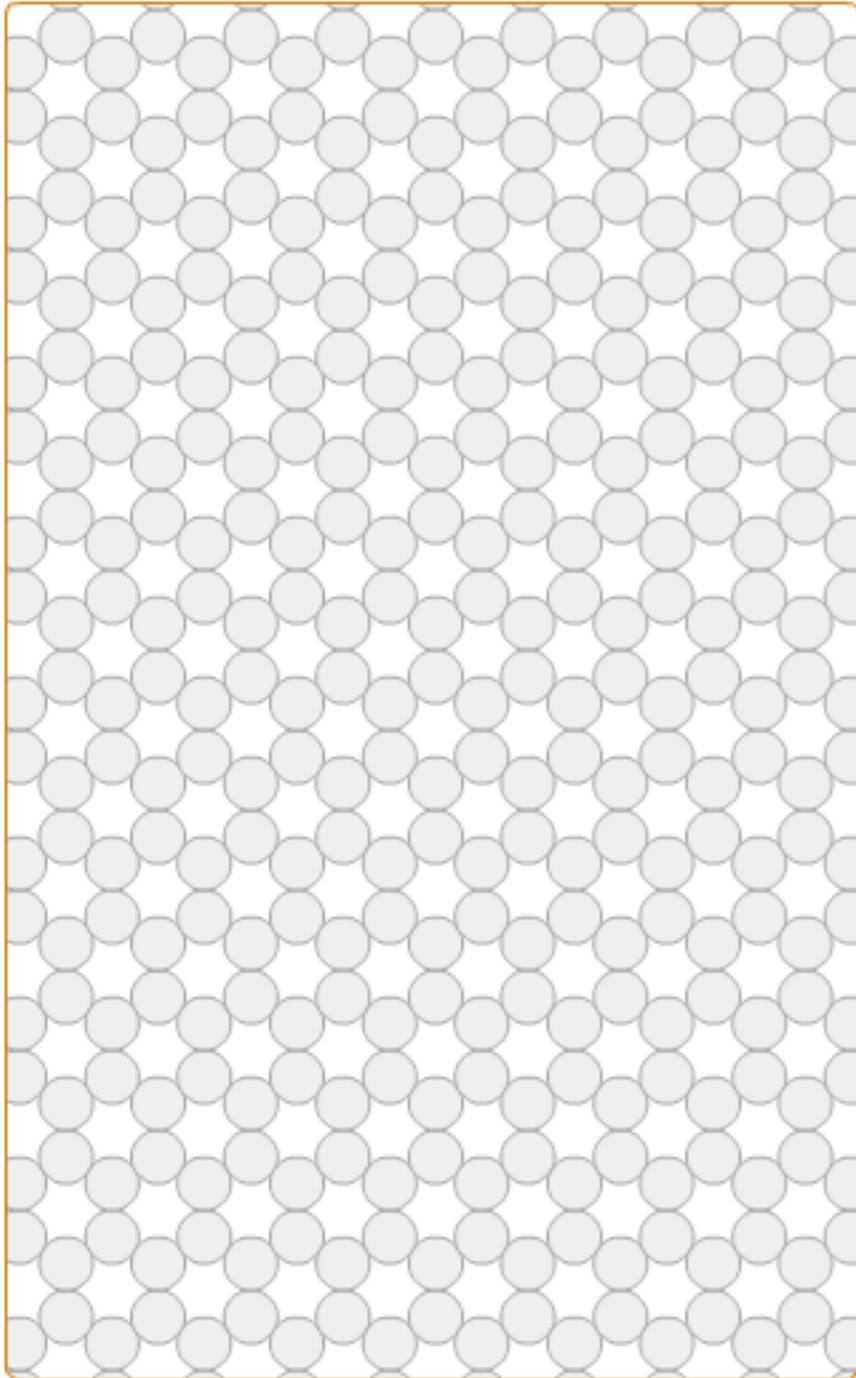
walkthrough:
nanotube design

composite
structures

caDNA
interface

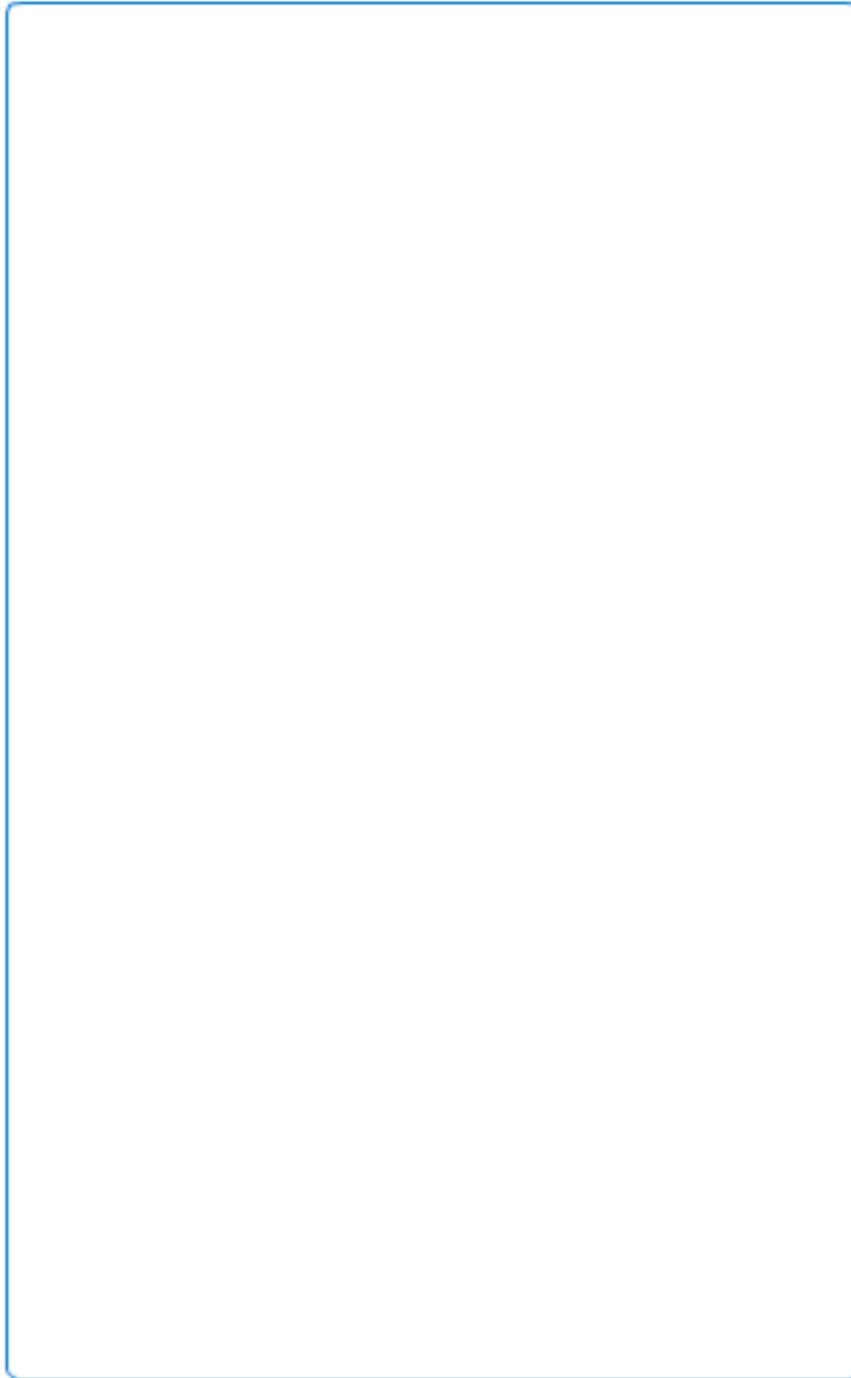
create
animation

caDNAno

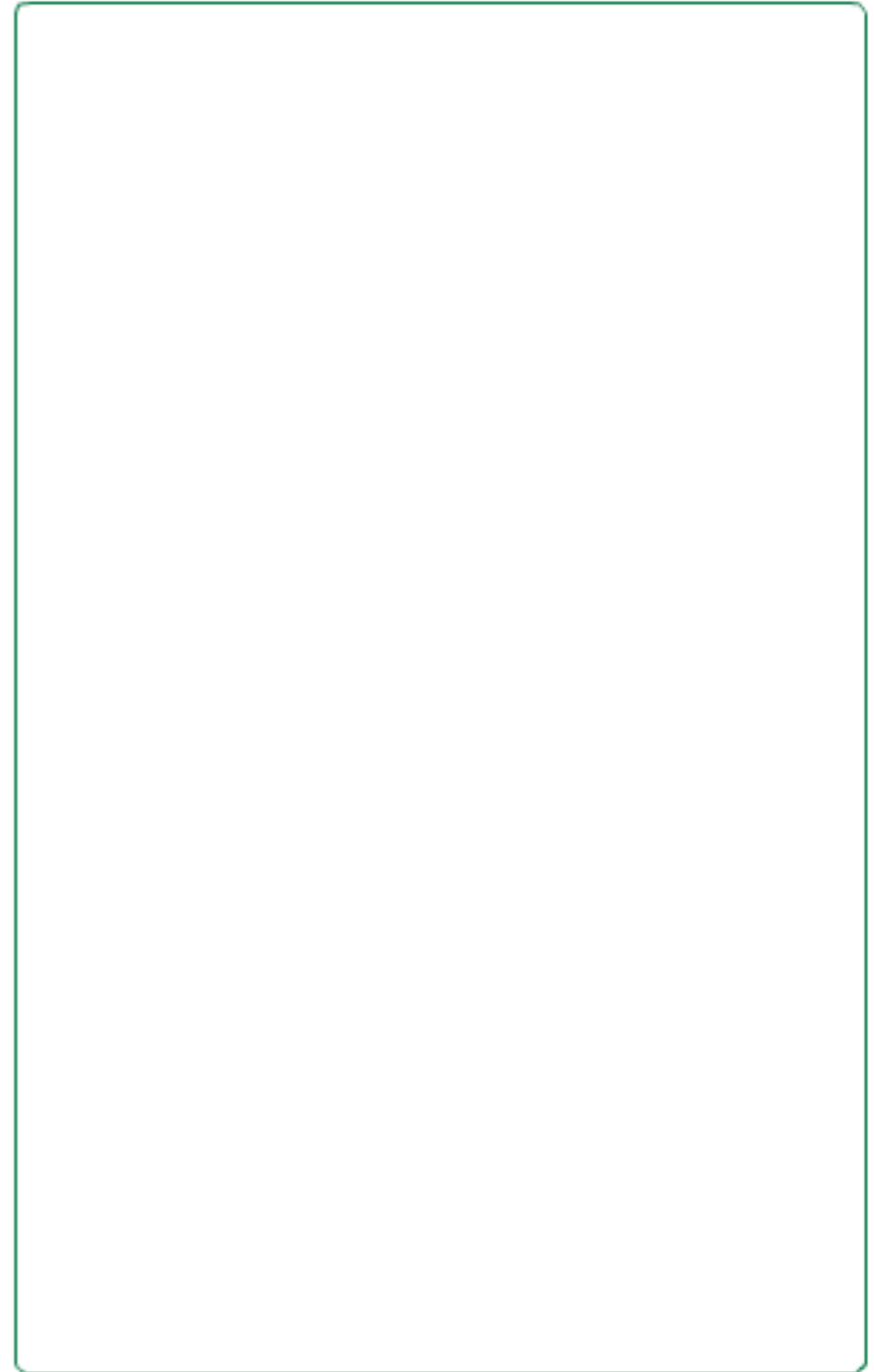


in out

+ -



in out



save

caDNAno workflow

I. choose a scaffold

or

Add new

p7249
M13mp18



p7308



p7560



p8064



paste sequence

ATCCGTT

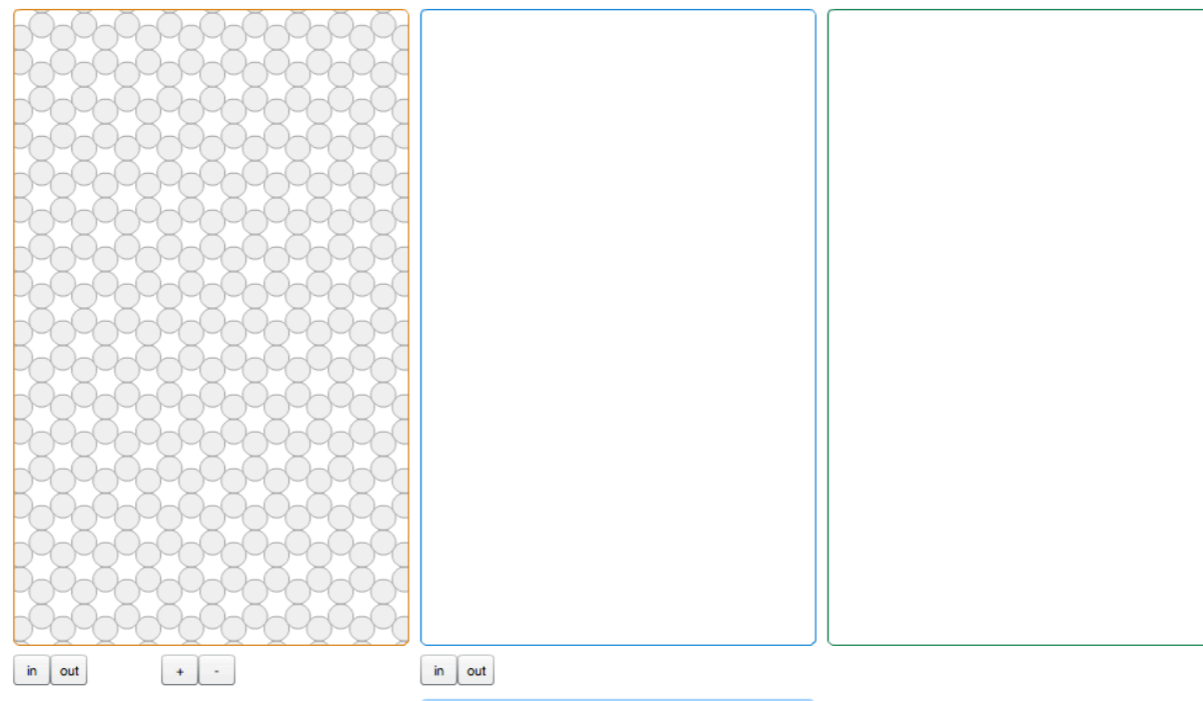
annotate sequence

paste in a subsequence and choose a color (and possibly a name, e.g. "hairpin")
- good for hairpins,
built in ssDNA structures,
restriction sites, etc.

save

caDNAno workflow

2. Design

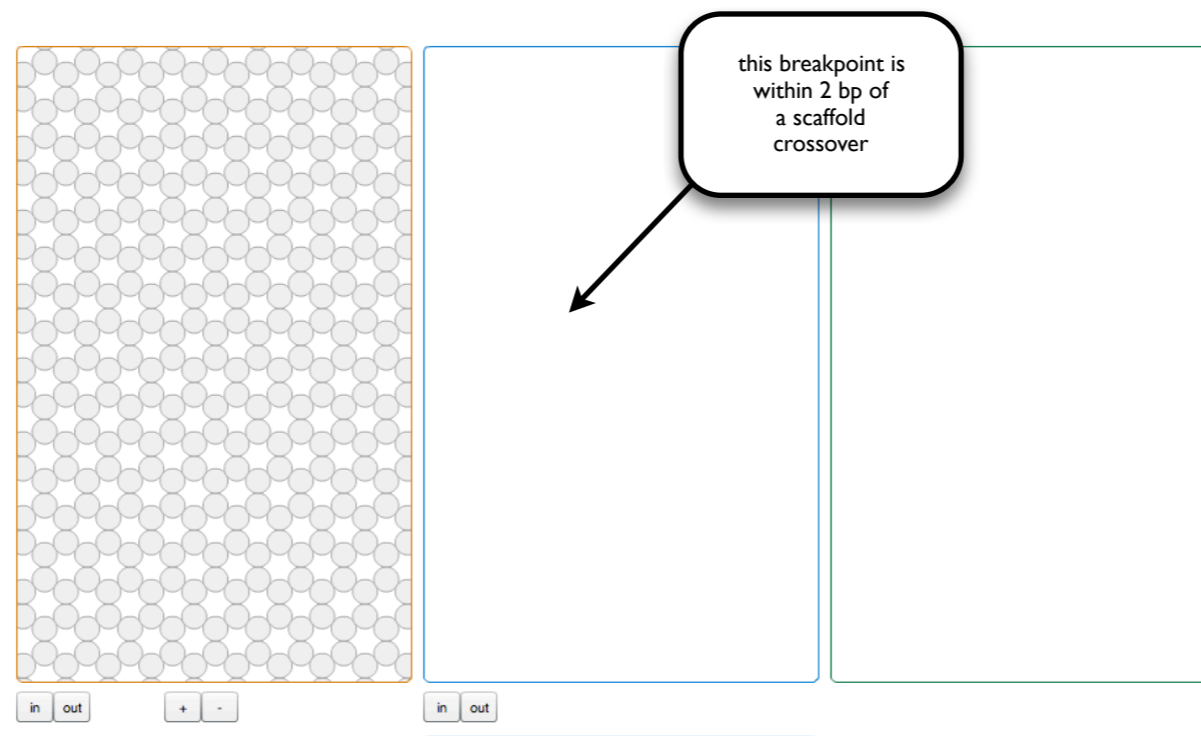


- a) scaffold arrangement
- b) staple arrangement, breakpoints
- c) caps, loops, etc.

describe how to do this in screencasts

caDNAno workflow

3. Validation & “finalize”



check for scaffold or staple violations (non-continuous scaffold, spacing errors), etc

click a “validate” button, redraw structure with additional annotations (tooltip windows, etc).

caDNAno workflow

4. Oligo sorting and output

selection
tools

groups:

core
head-cap
tail-cap
[add group]

click on a group to get a selection tool for that group, and then drag-select 3' ends of oligos to group

once finished, click “Done” to open a page with a complete list of oligos, sorted by group, for ordering

(calculate cost?
auto-generate spreadsheet?)

path view

save

caDNAAno workflow

4. Order pools

database
of
existing
oligos

compare list of new oligos against list of
oligos that you already have ordered

generate list of oligos that have not
previously been purchased, and sort into
pools.

output pipetting instructions
default suggested protocol
etc.

caDNAno workflow

Features

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