

Flight Part 1



Animals in flight

- Birds:
https://www.youtube.com/watch?v=B1uY7_wdYOA
- Owl:
<https://www.youtube.com/watch?v=jc9En9WUzI8>
- Ladybug::
<https://www.youtube.com/watch?v=fC61ZA4uWbs>
- Butterflies:
<https://www.youtube.com/watch?v=CoInyfsySD0>
- Hummingbirds:
<https://www.youtube.com/watch?v=yIfTSc9D34g>
- Flying fish:
<https://www.youtube.com/watch?v=gAjzH0vWSIA>

Icarus And Daedalus



75. *Dædalus Icaro alta nimis ambienti orbatur.*

The story of Icarus and Daedalus: <https://www.youtube.com/watch?v=YvrjaxNmf24>

Hot Air balloons

- Invented by the Chinese over 2000 years ago!
- Called “sky lanterns”, which were used in festivals.
- Possibly also to scare enemies.



Kites in China

- Earliest records of kites date from over 2500 years ago!
- They were built out of wood.
- Resembled birds
- Some were so large they could lift people.
- Used to send signals and communicate.

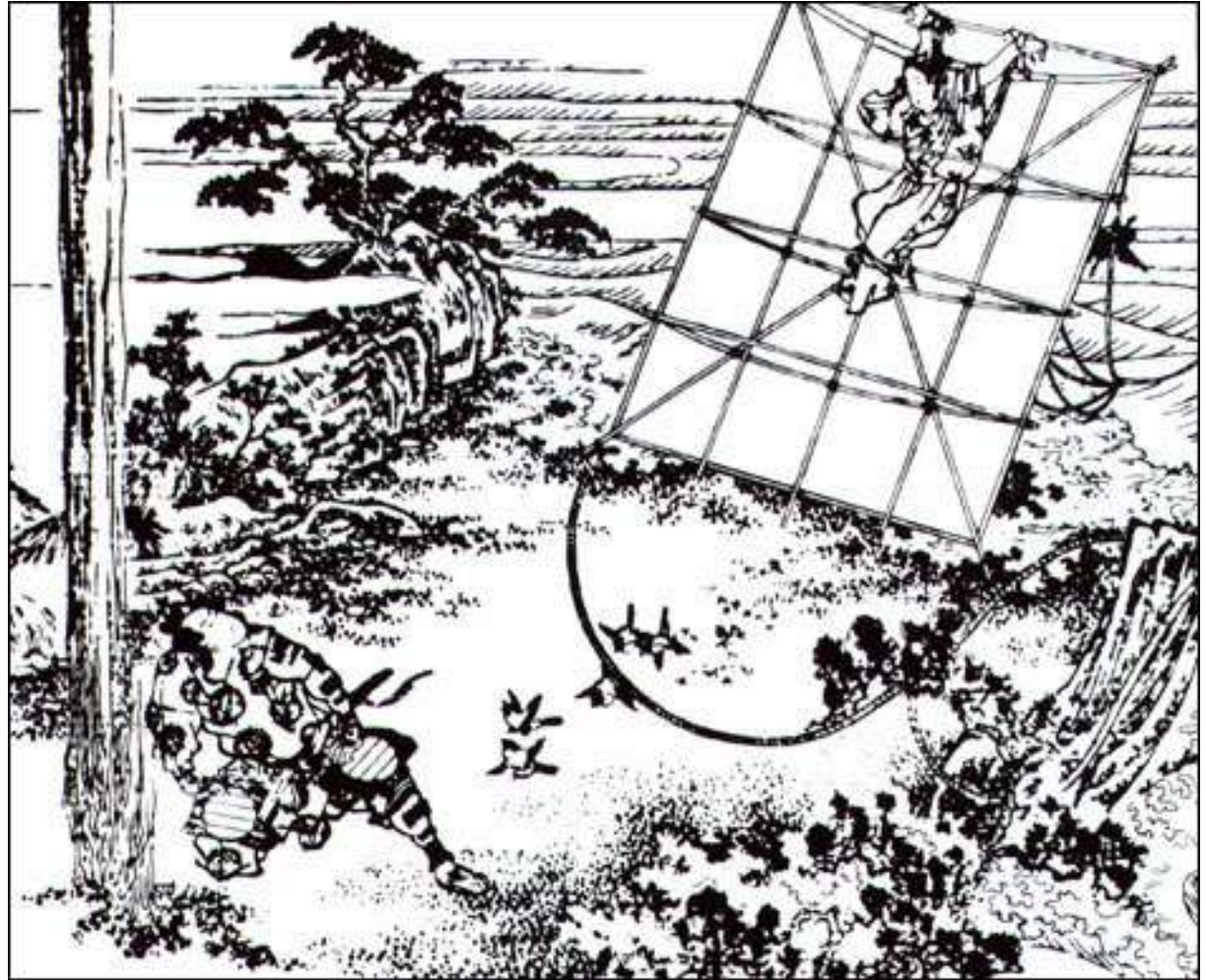


Drawn by T. Allen

Engraved by A. Wilson

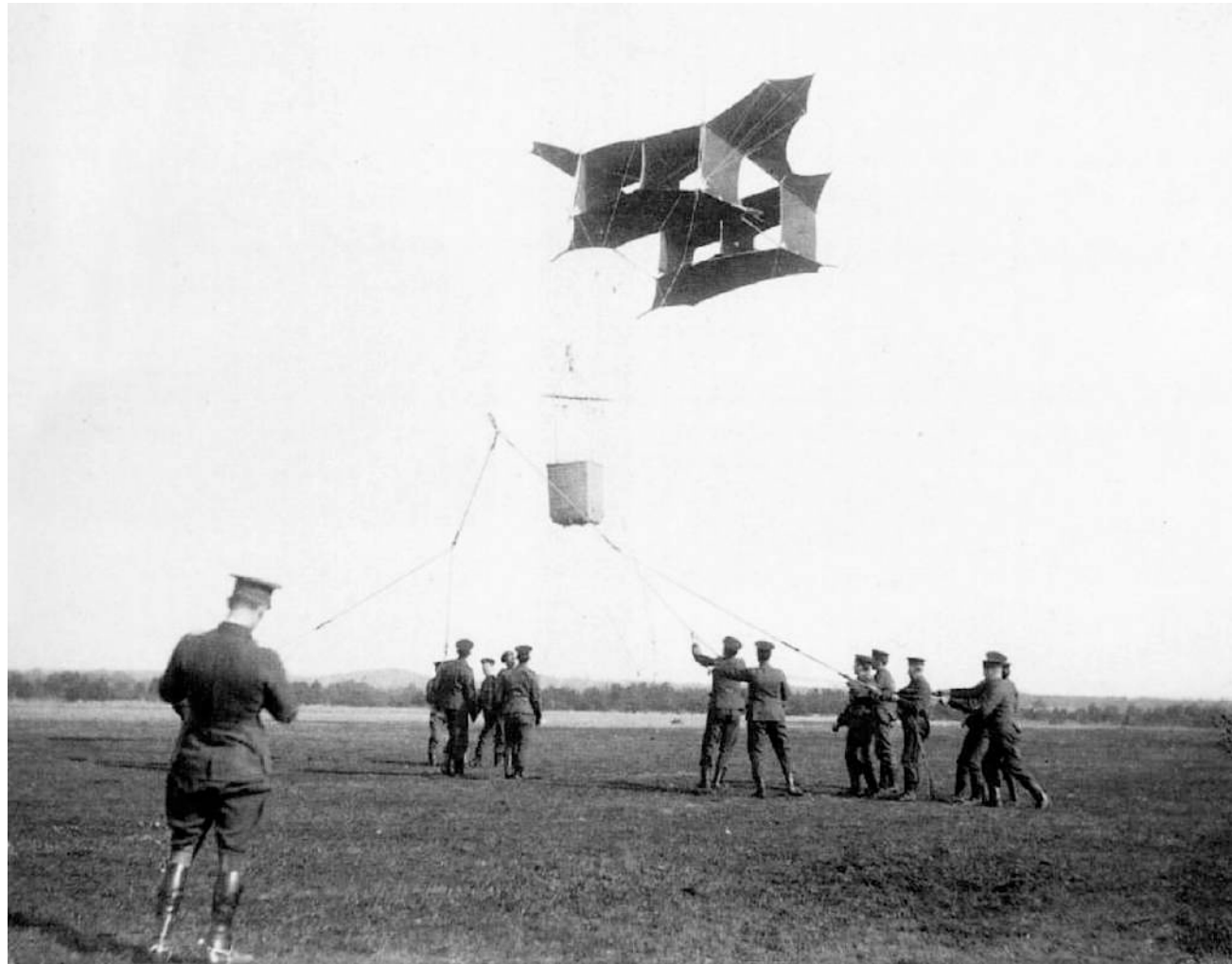
Man Carrying Kites

- Used for communication and observation
- Also used as a form of punishment
- Became common in Japan as well.



Observation Kite in World War I

- Could rise up to 1 km into the air!
- Became obsolete when balloons, and then airplanes, took over.



Forces Acting on a Kite

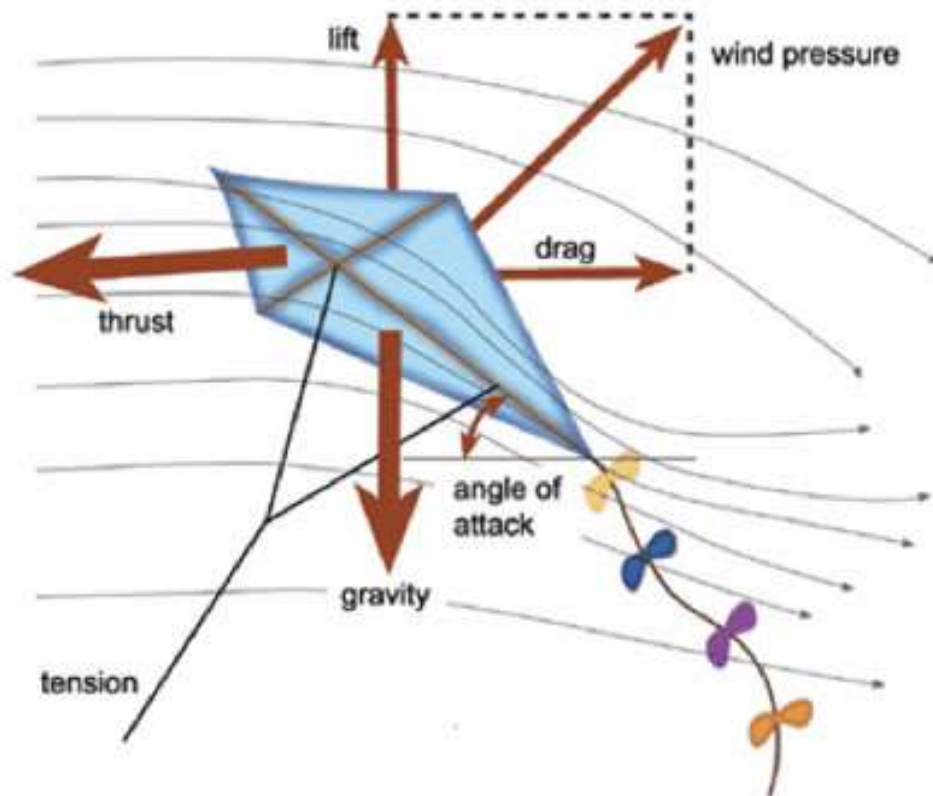


Image source: http://airandspace.si.edu/blogmedia/kite_diagram.jpg