Meros:
Remapping Light in the Urban Journey

Thesis Research 2008
DylanMoore@Pratt.edu

Core Concept:
Looking at how we move through the spaces we live in...

Core Concept:
Looking at how we move through the spaces we live in...

and the light we experience.

Record the paths taken on a bicycle,
and the light that was encountered.

Record the paths taken on a bicycle,
and the light that was encountered.

Then, use the data to map familiar places
with new and unnoticed features.

- Capturing Light Details
- Mapping
- Aesthetic Inspirations
- Implementation
- The Results!

- Capturing Light Details

- Mapping

- Aesthetic Inspirations

- Implementation

- The Results!

...But first, **why**?

Why?

The beauty of the everyday journey is lost in a sea of noise.

Why?

The beauty of the everyday journey is lost in a sea of noise.

Creating artwork in a process of exploring daily travels and experiences can bring this beauty out.

Light

NB: Video not exported to PDF version.

Remapping Experiences of Light
in the Urban Daily Journey

Mapping Light

Mapping Light

8 Second Exposures Map Light Artifacts

Mapping Light

Mapping Light

Street Lamps and an Intersection

Mapping Light
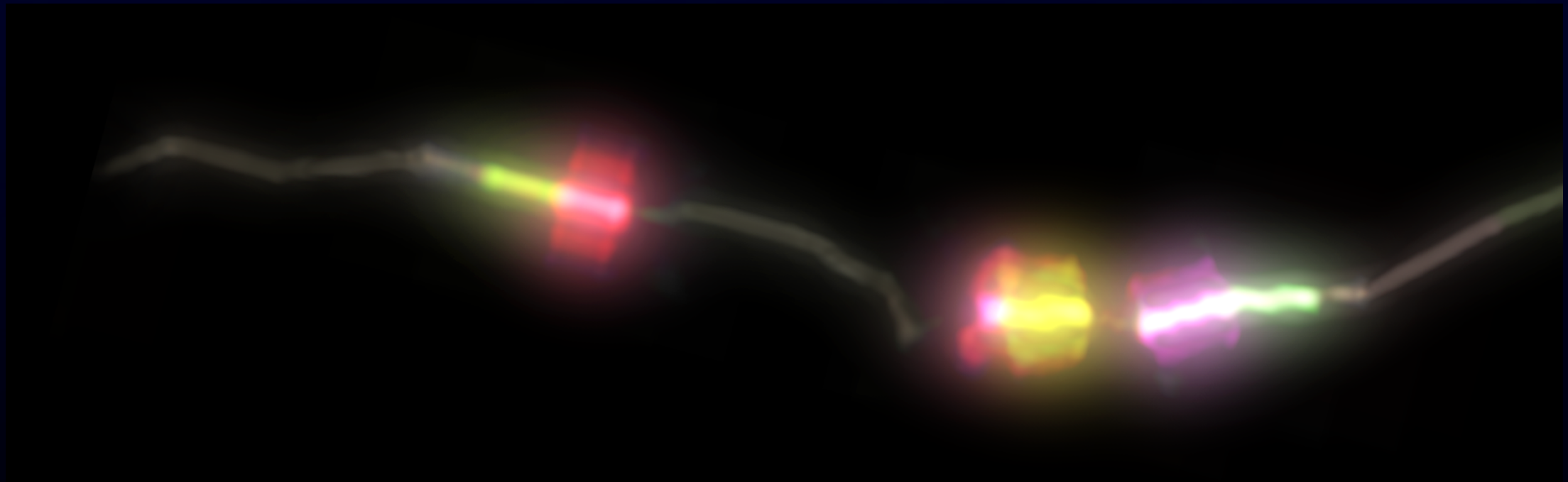
Traffic Signals and Chinese Food

Traditional Mercator Projection: Area Inaccurate

Great for Sea Travel
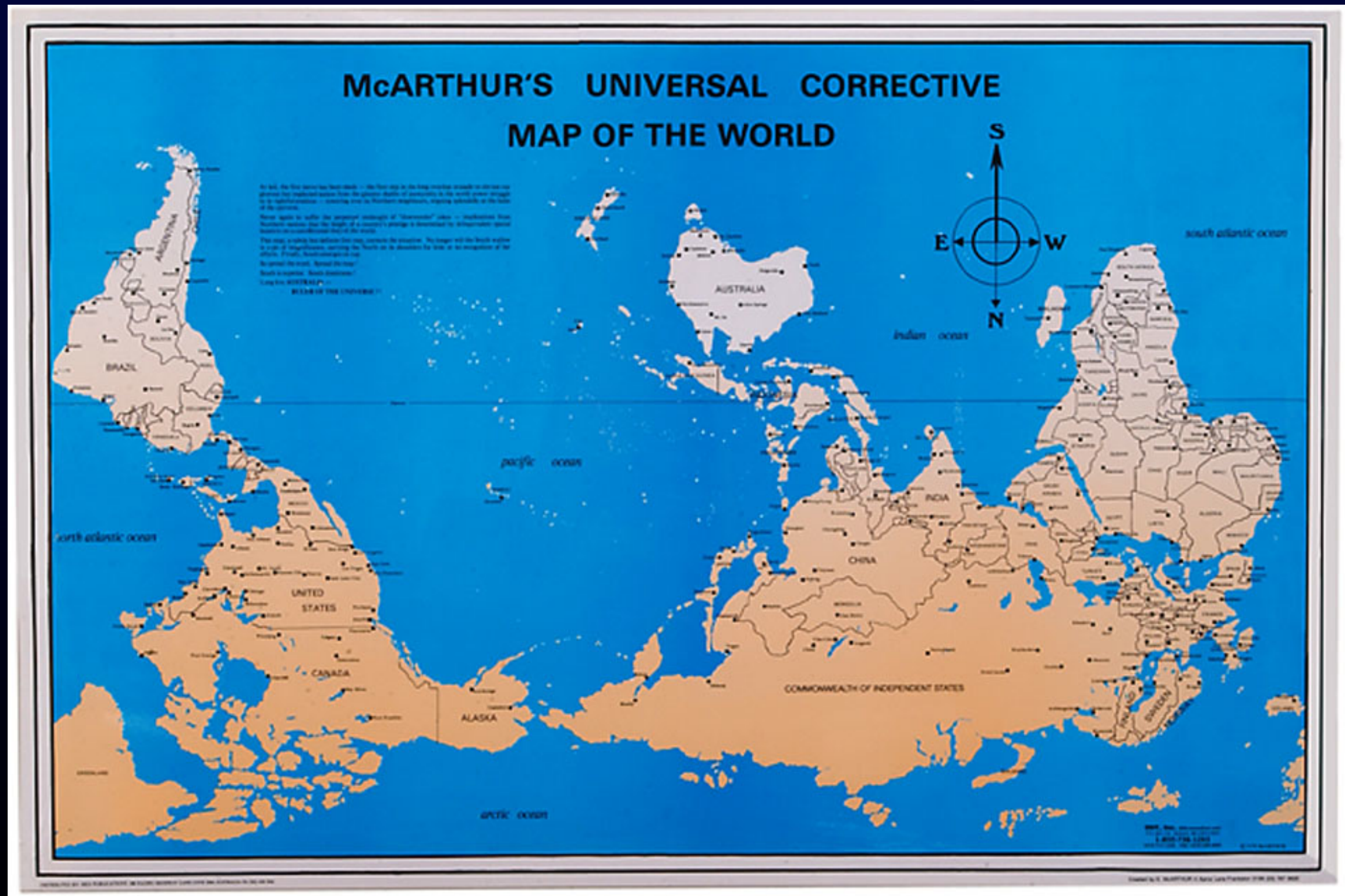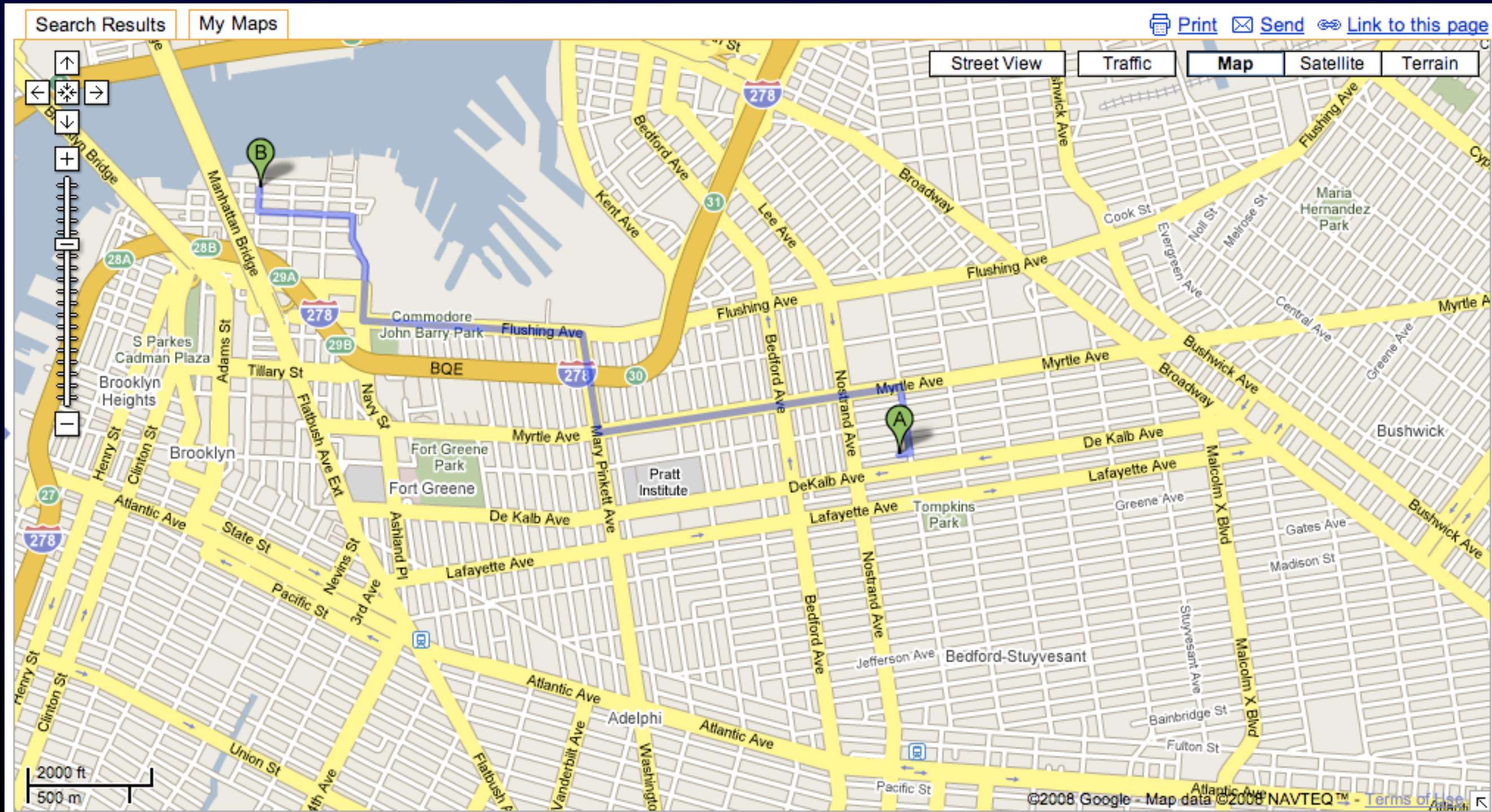
Great for Australia!

Local Geographic Reprojection
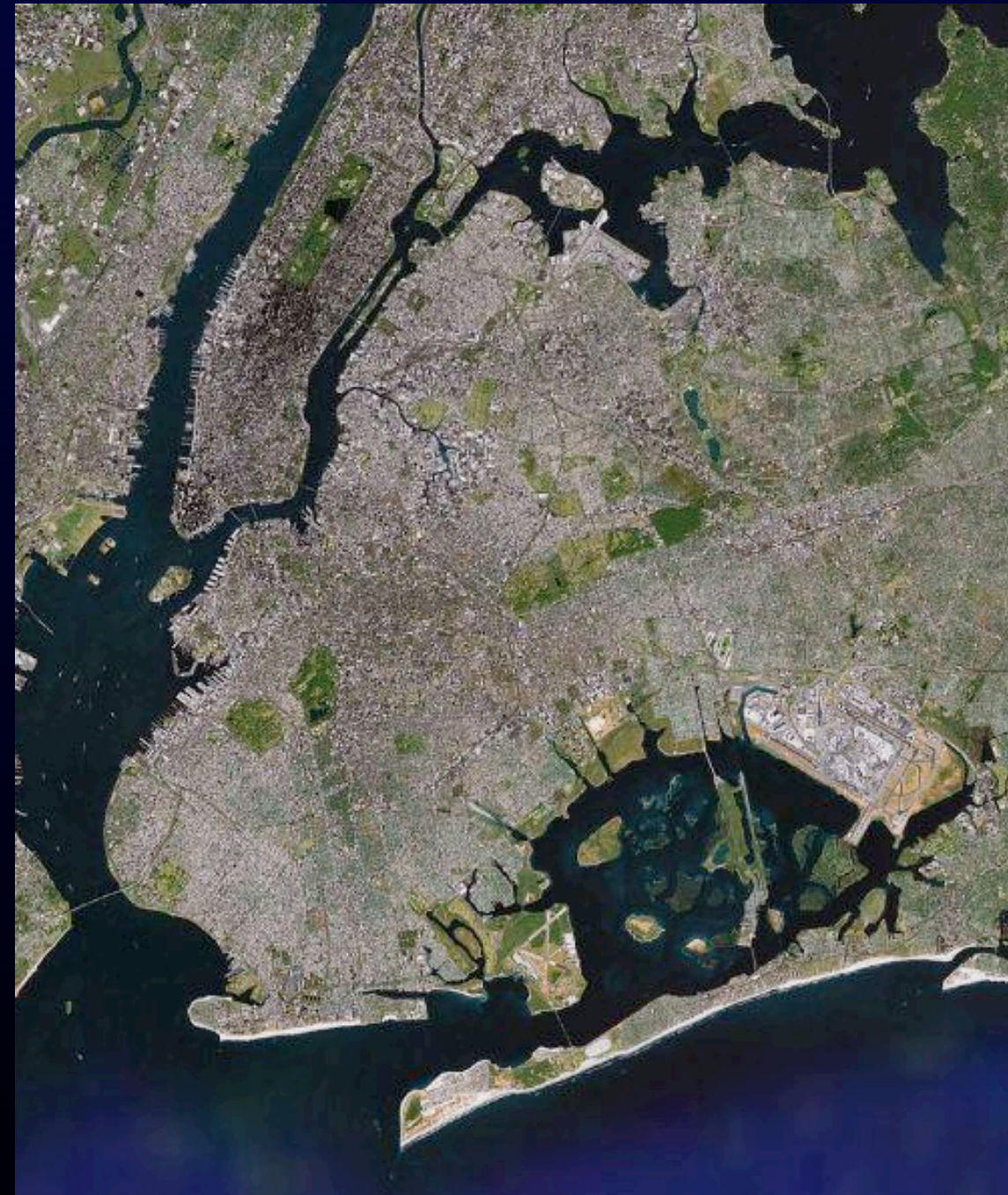
Subway Remapping for Travel

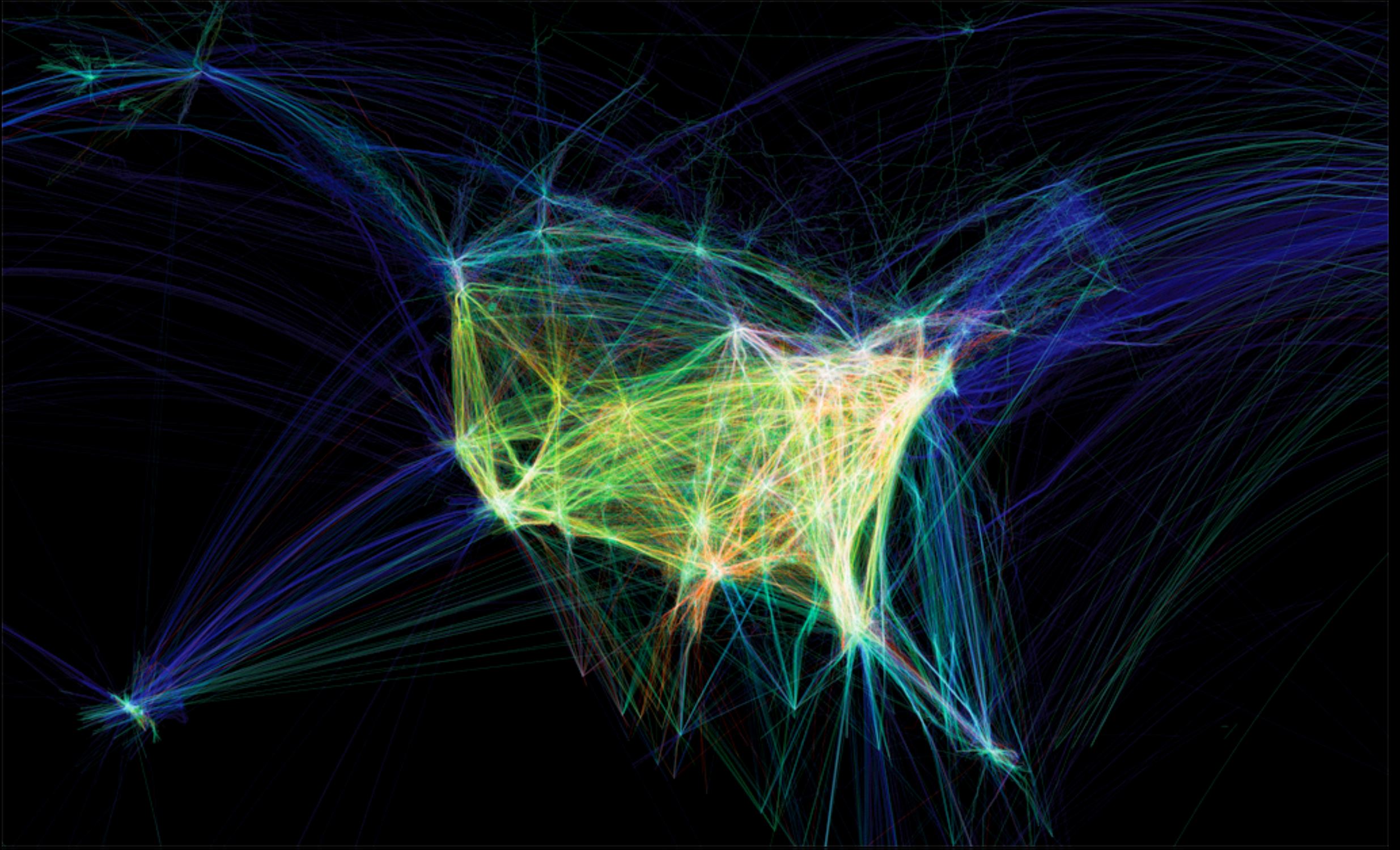# The World at Night: Light as a Narrative
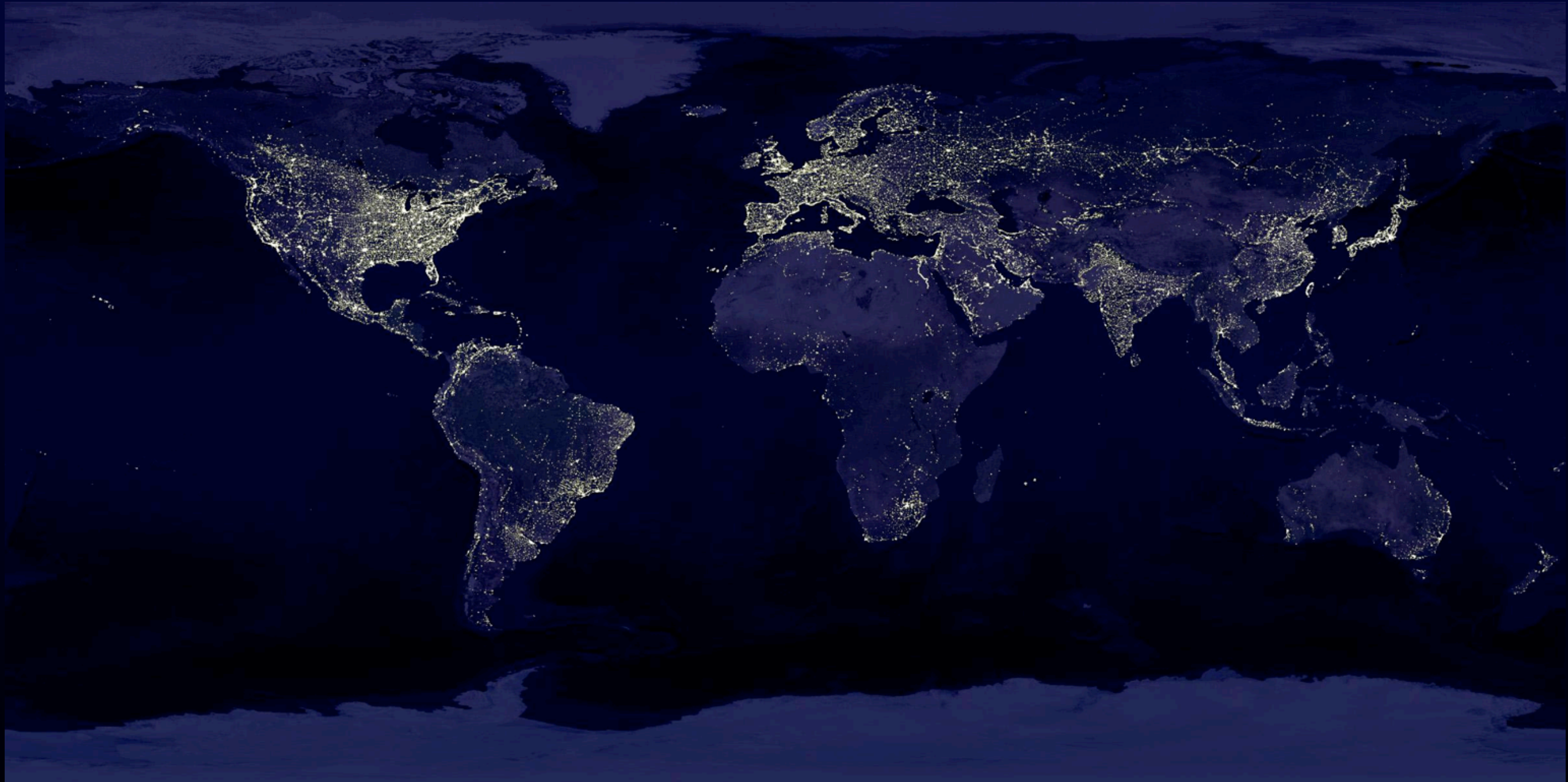
Using Lines in Mapping

Boundaries and Directions

GPS tracks over London, England
Jeremy Wood 2006
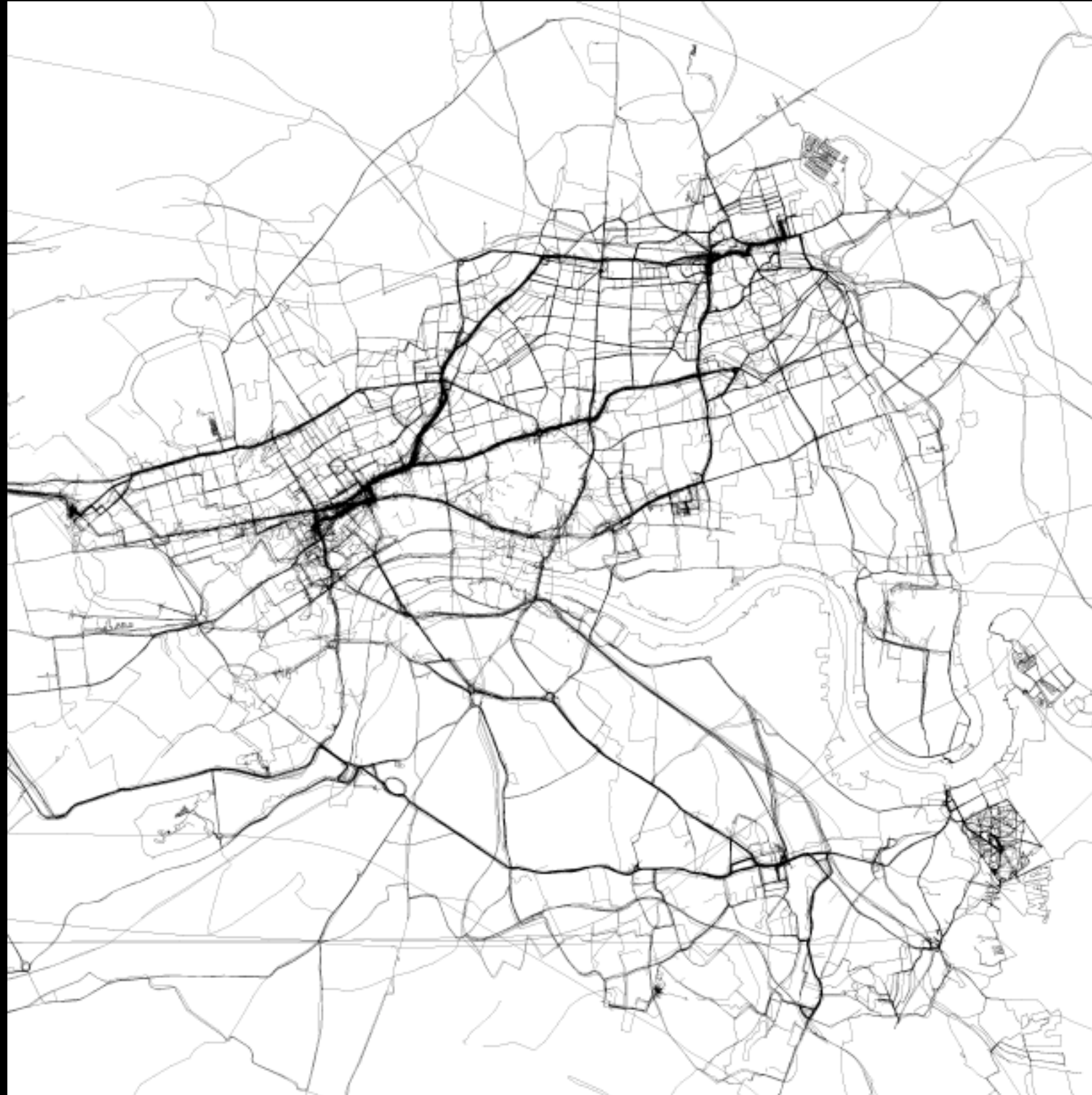
Flight Patterns -- Aaron Koblin 2005

Social Fabric and Networked Experiences
Proboscis 2004

Implementation

Capturing Experiences

Bicycle chosen for reasons of

Bicycle chosen for reasons of
Range and mobility

Bicycle chosen for reasons of

Range and mobility

Sustainable alternative

Capturing Experiences

Bicycle chosen for reasons of

Range and mobility

Sustainable alternative

Mechanically ideal for tracking

MEROS - 2006 - DYLAN MOORE

Reconstructing Paths

MEROS - 2006 - DYLAN MOORE

MEROS - 2006 - DYLAN MOORE
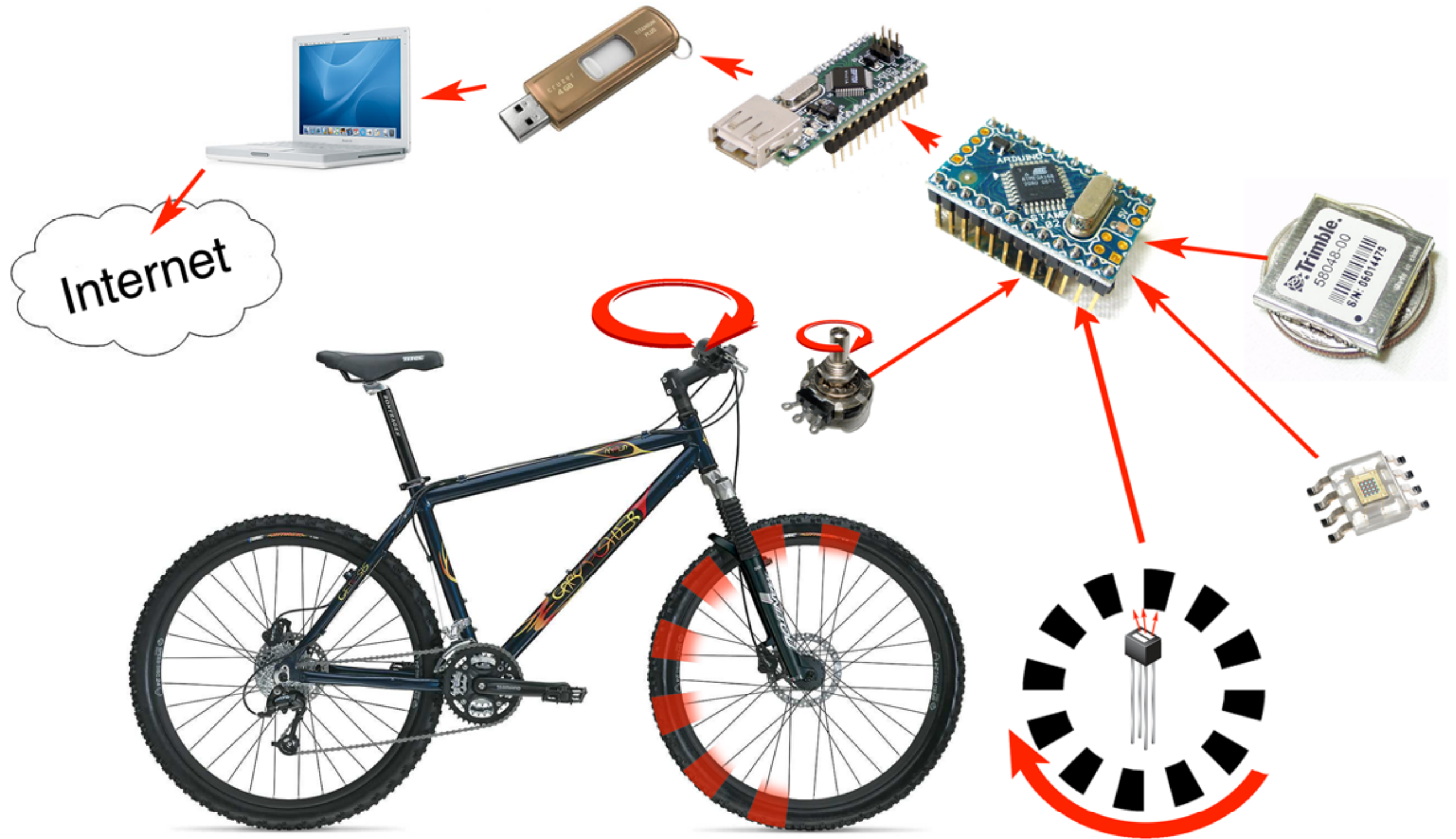
MEROS - 2006 - DYLAN MOORE

MEROS - 2006 - DYLAN MOORE

Working Title: Meros

MEROS - 2006 - DYLAN MOORE

Global Positioning System

Why Use Rotary and Optical Encoding?

Global Positioning System

Why Use Rotary and Optical Encoding?

1 Hz Update Rate: Frequent Enough?

Global Positioning System

Why Use Rotary and Optical Encoding?

1 Hz Update Rate: Frequent Enough?

(22 Feet per update, at 15 mph)

Global Positioning System

Why Use Rotary and Optical Encoding?

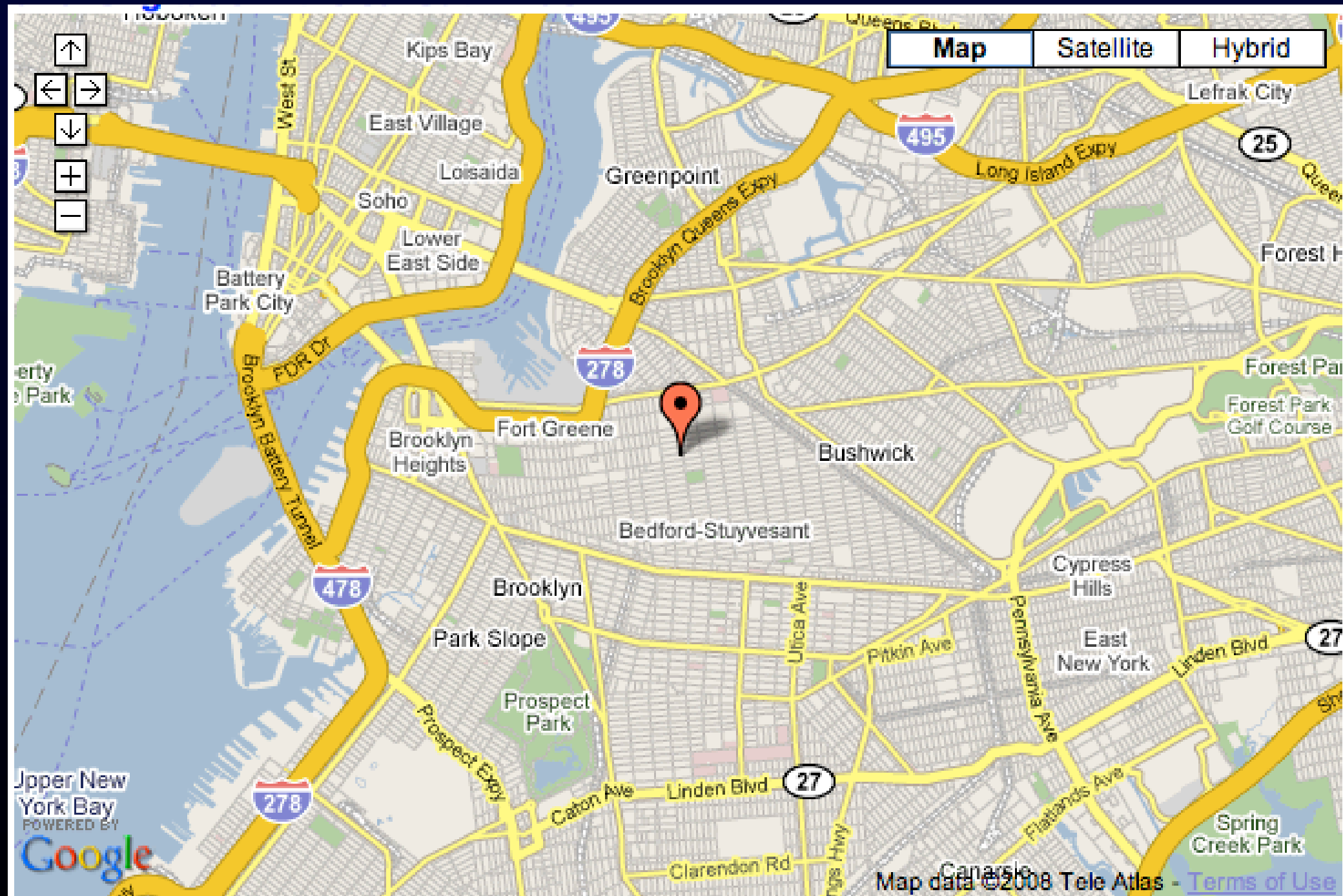*1 Hz Update Rate: Frequent Enough?*

+/- 5 Meters: Accurate Enough?

Global Positioning System

Why Use Rotary and Optical Encoding?

1 Hz Update Rate: Frequent Enough?

+/- 5 Meters: Accurate Enough?
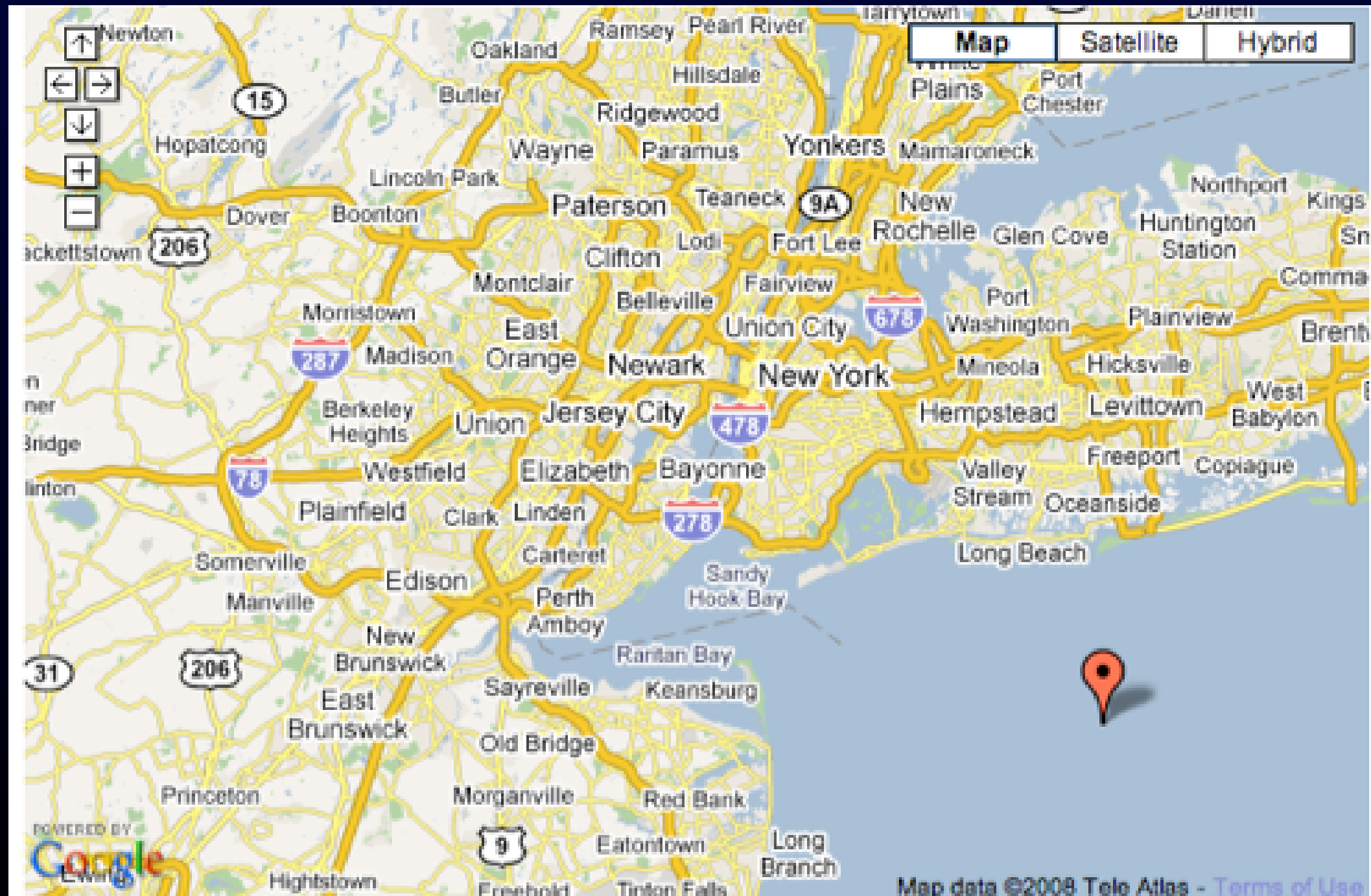
Urban Canyon Effect!

Global Positioning System
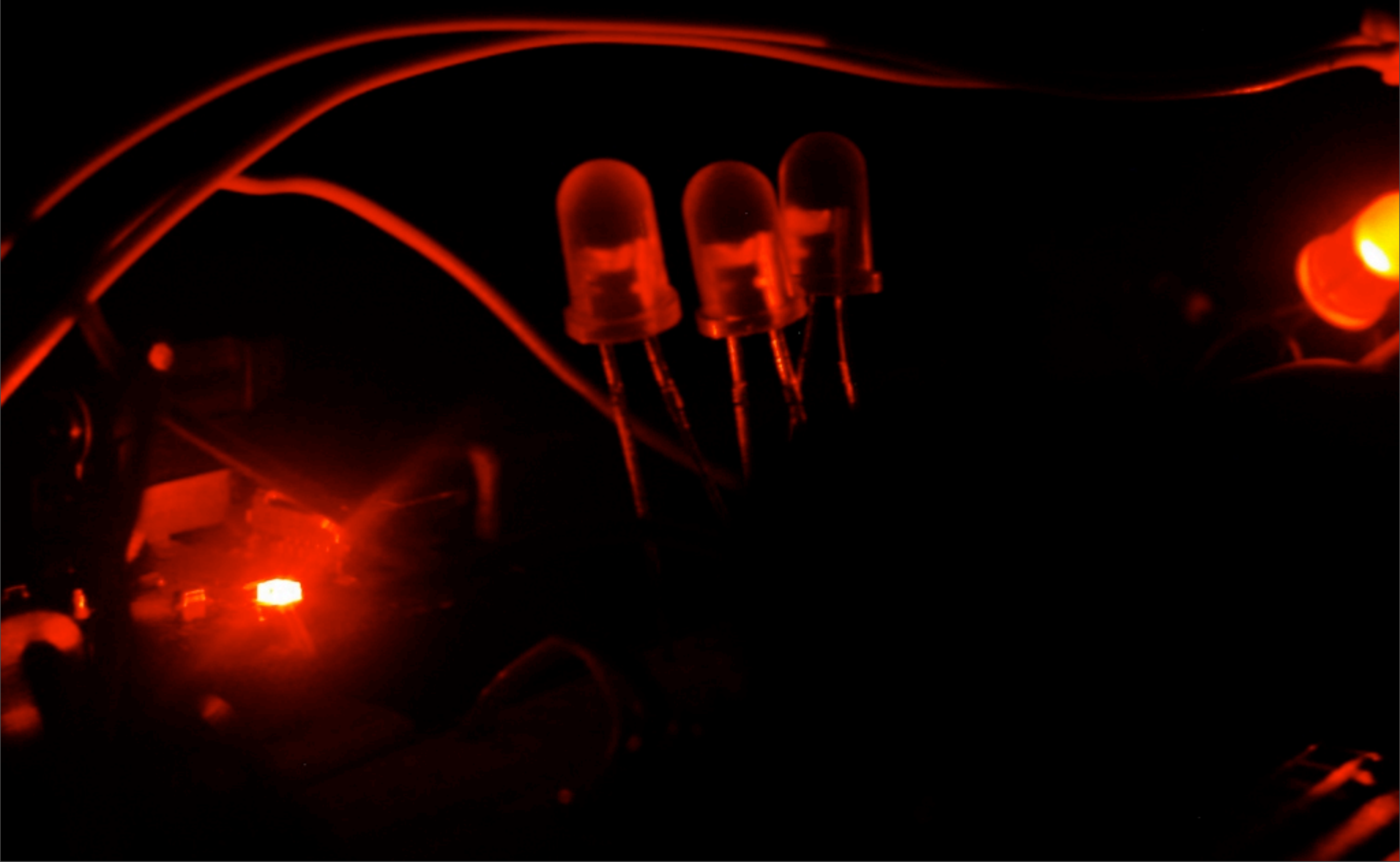

Urban Canyon Effect

Global Positioning System
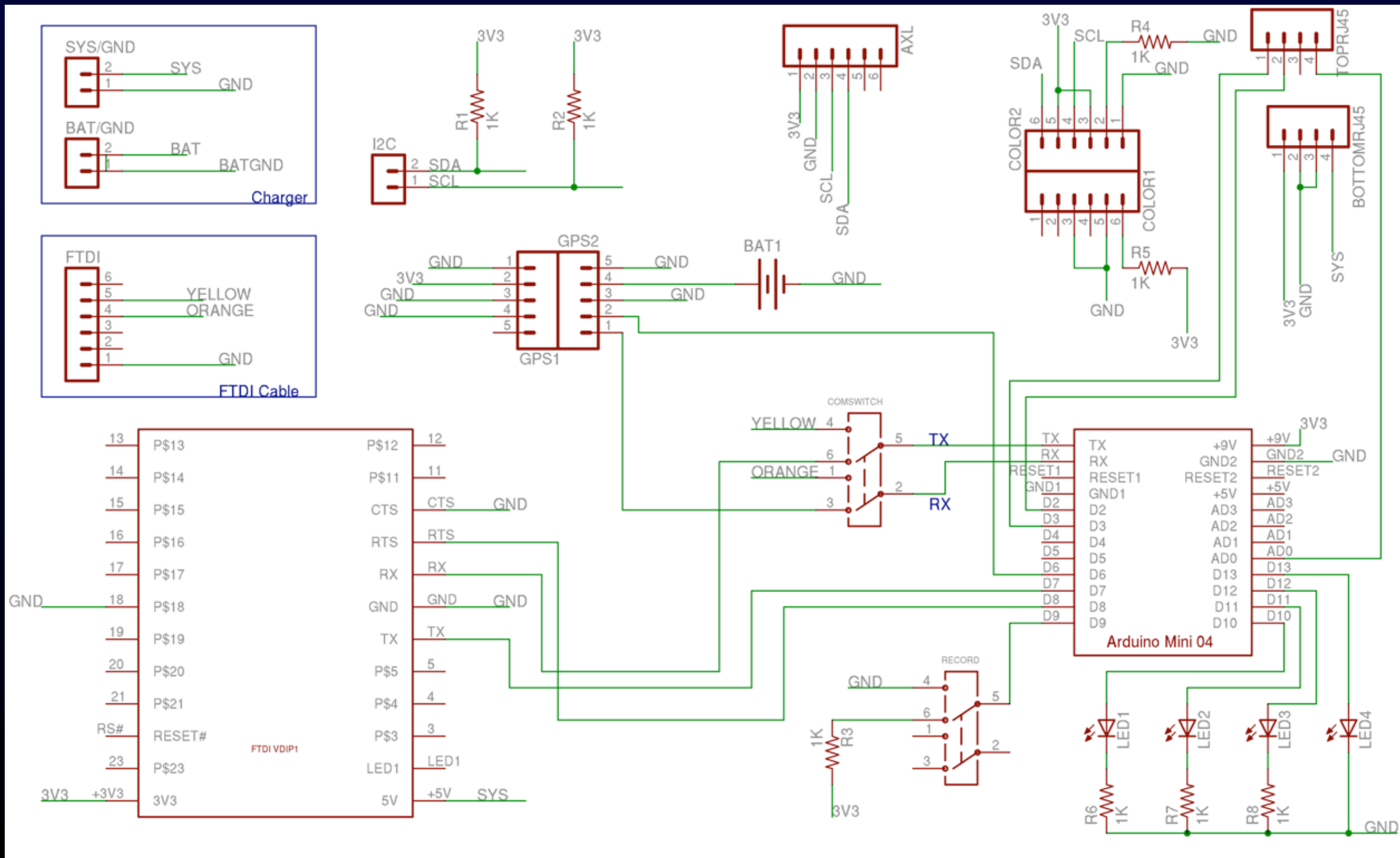

Urban Canyon Effect

Global Positioning System
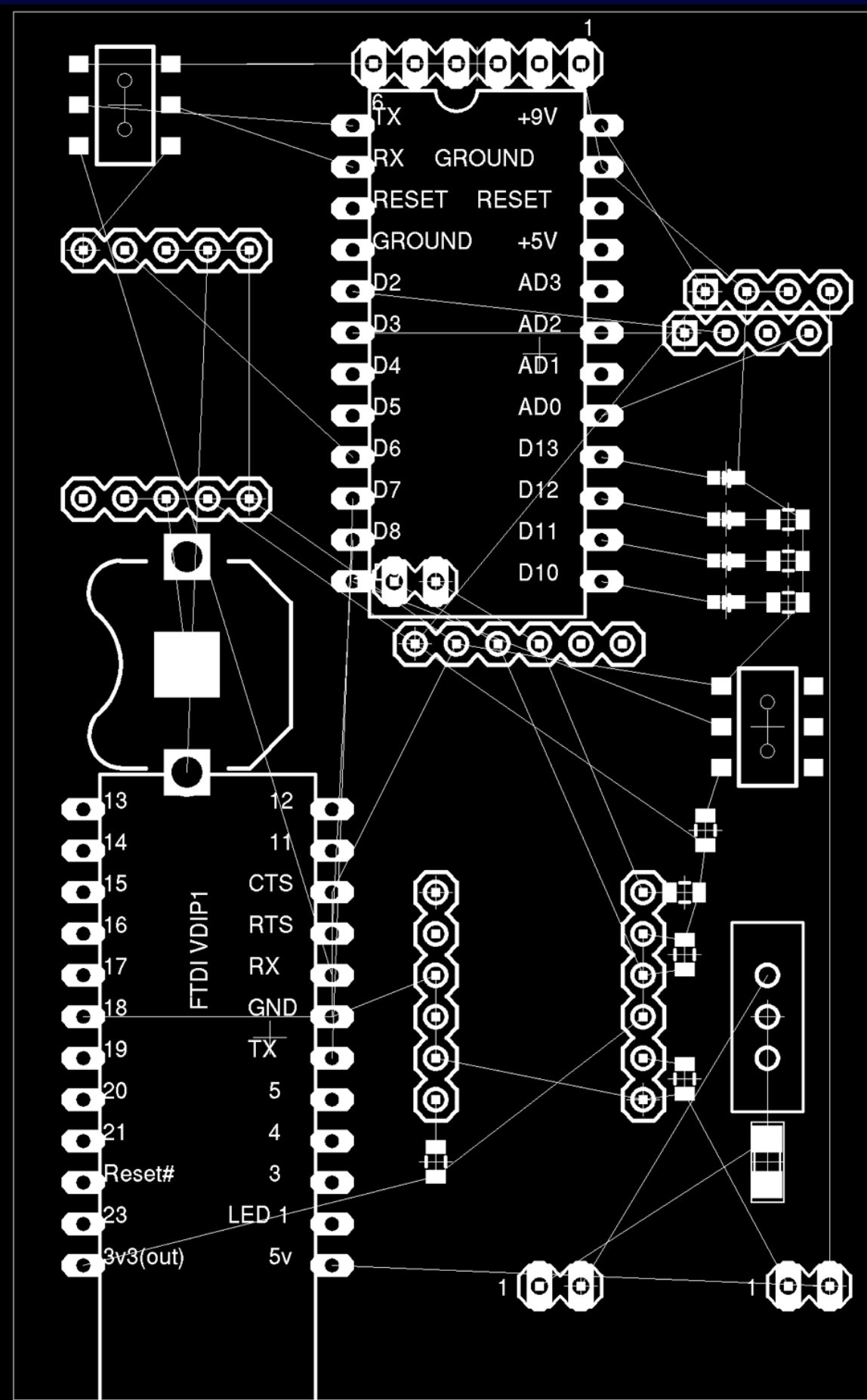

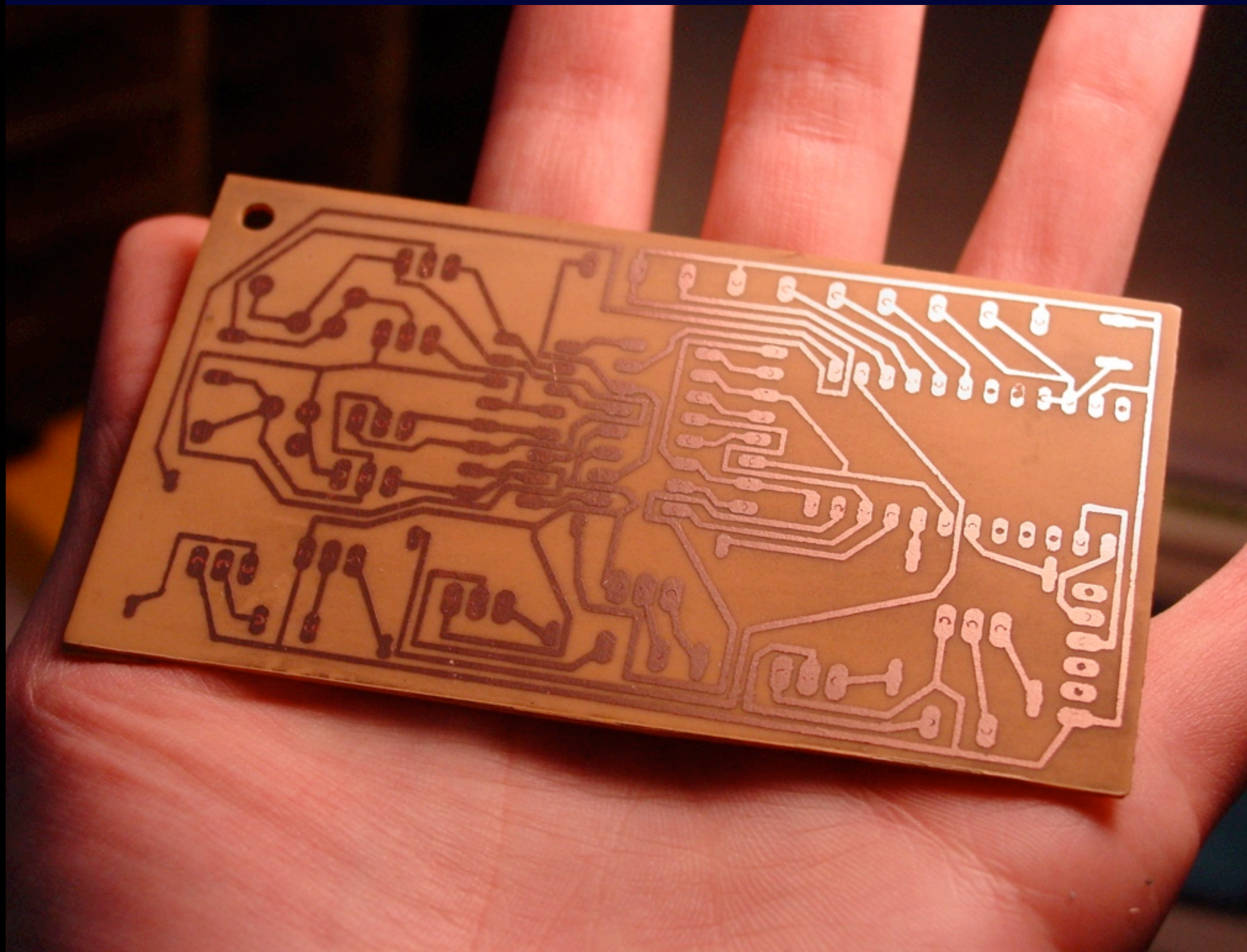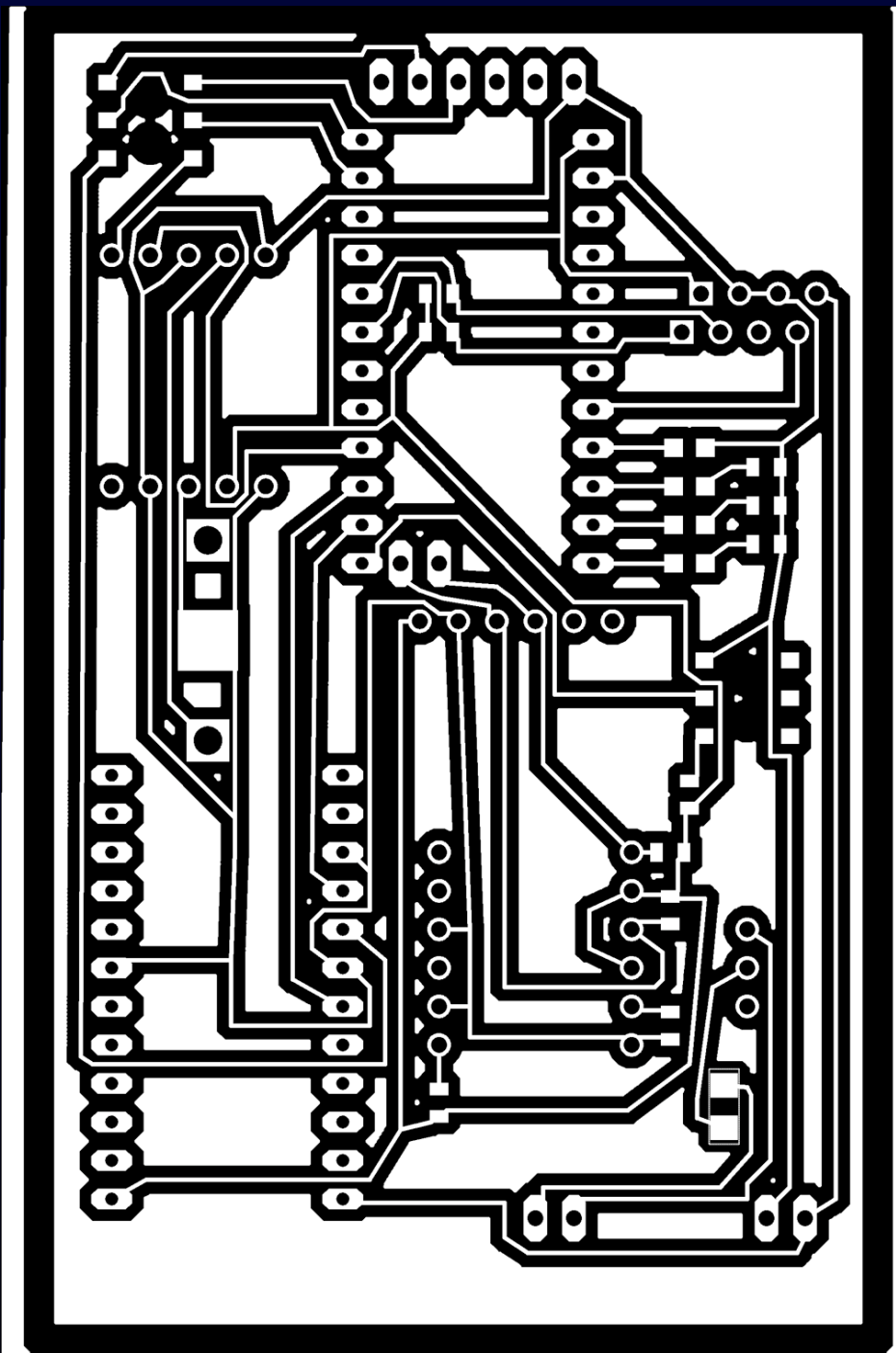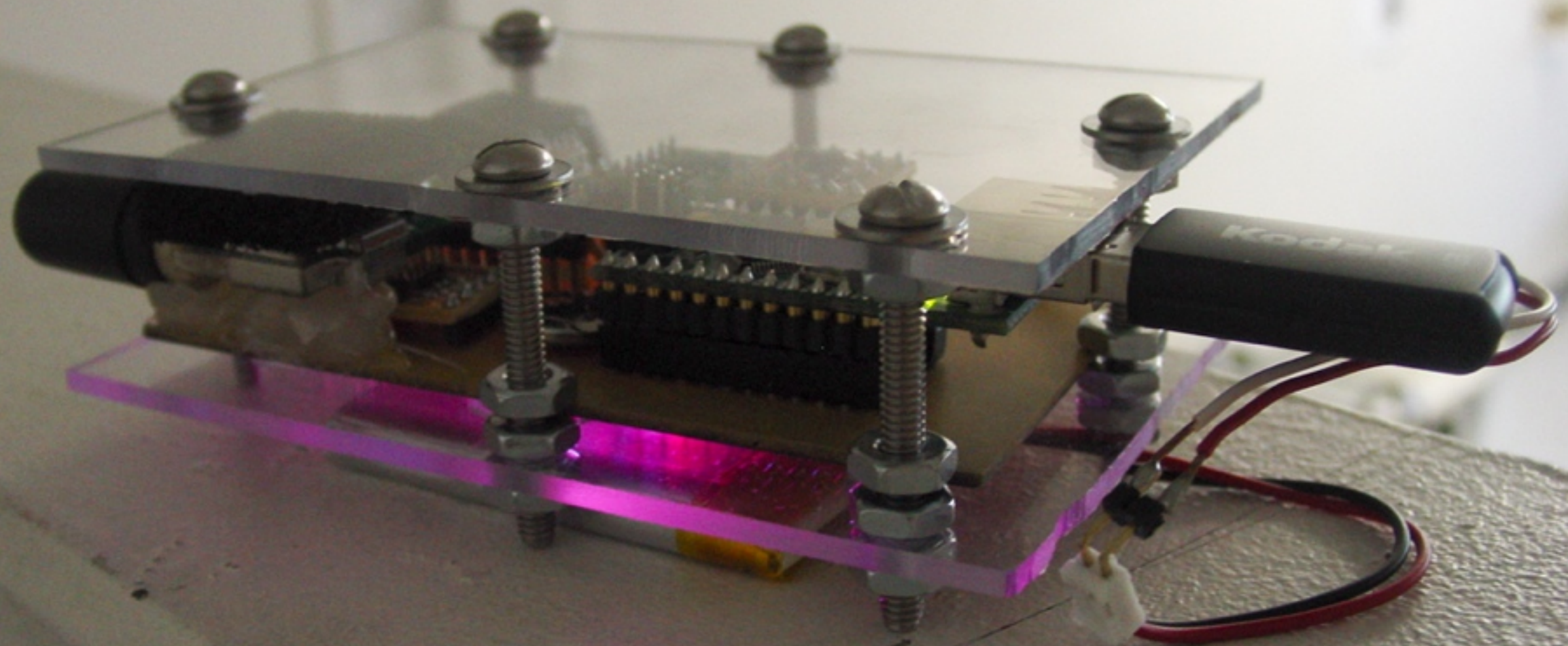(My Apartment is NOT in the Atlantic Ocean.)
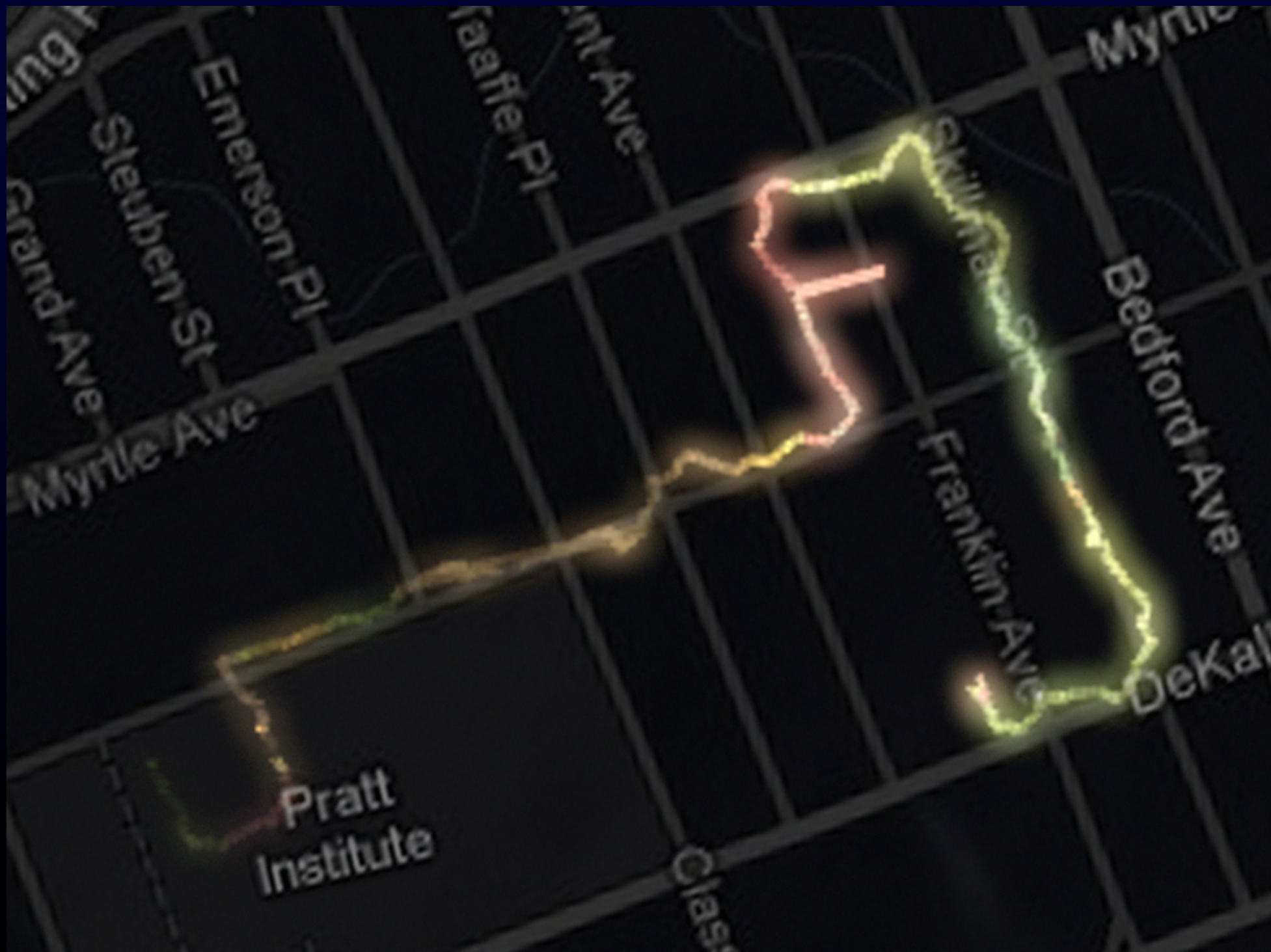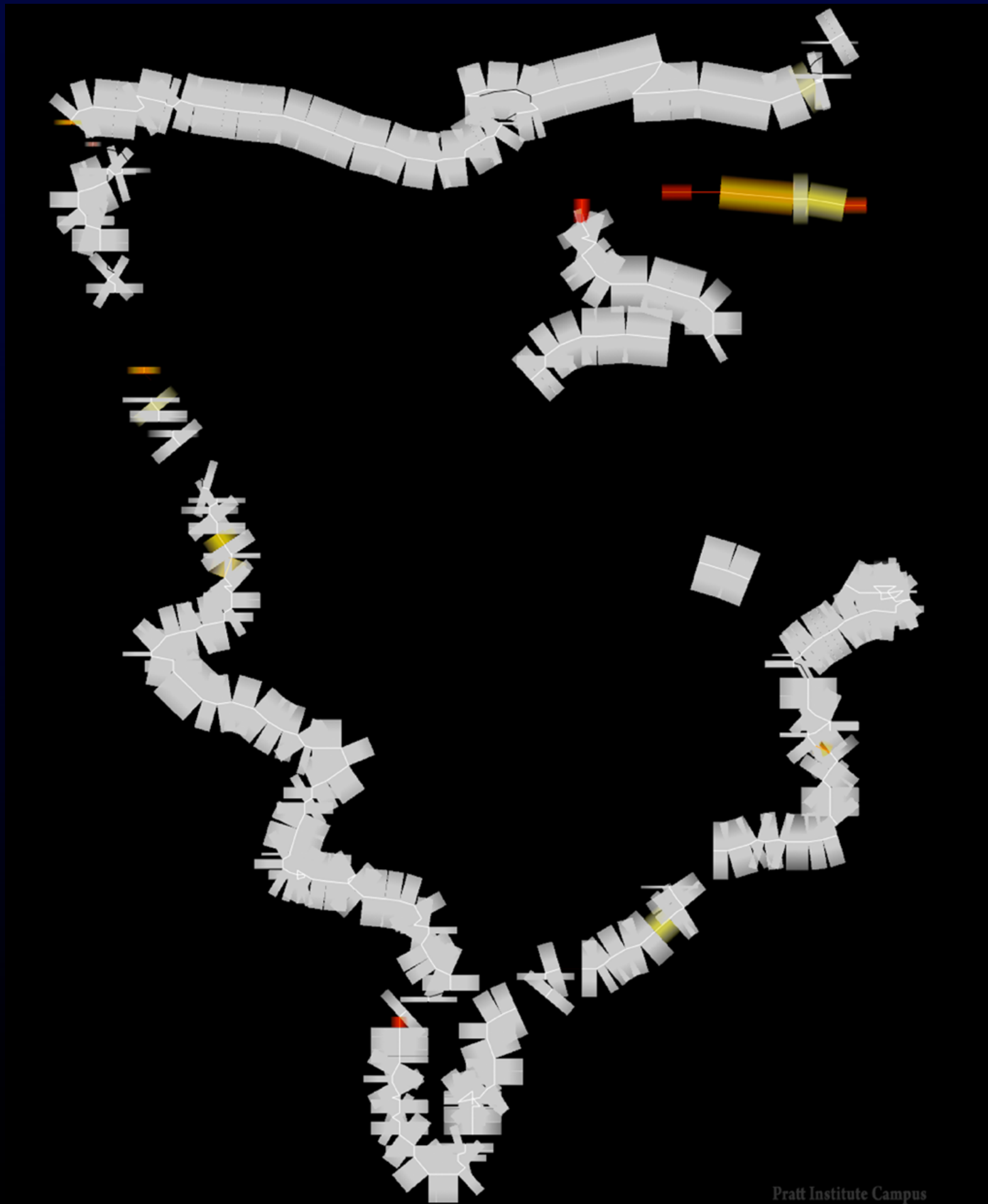
Hardware

Prototyping

45
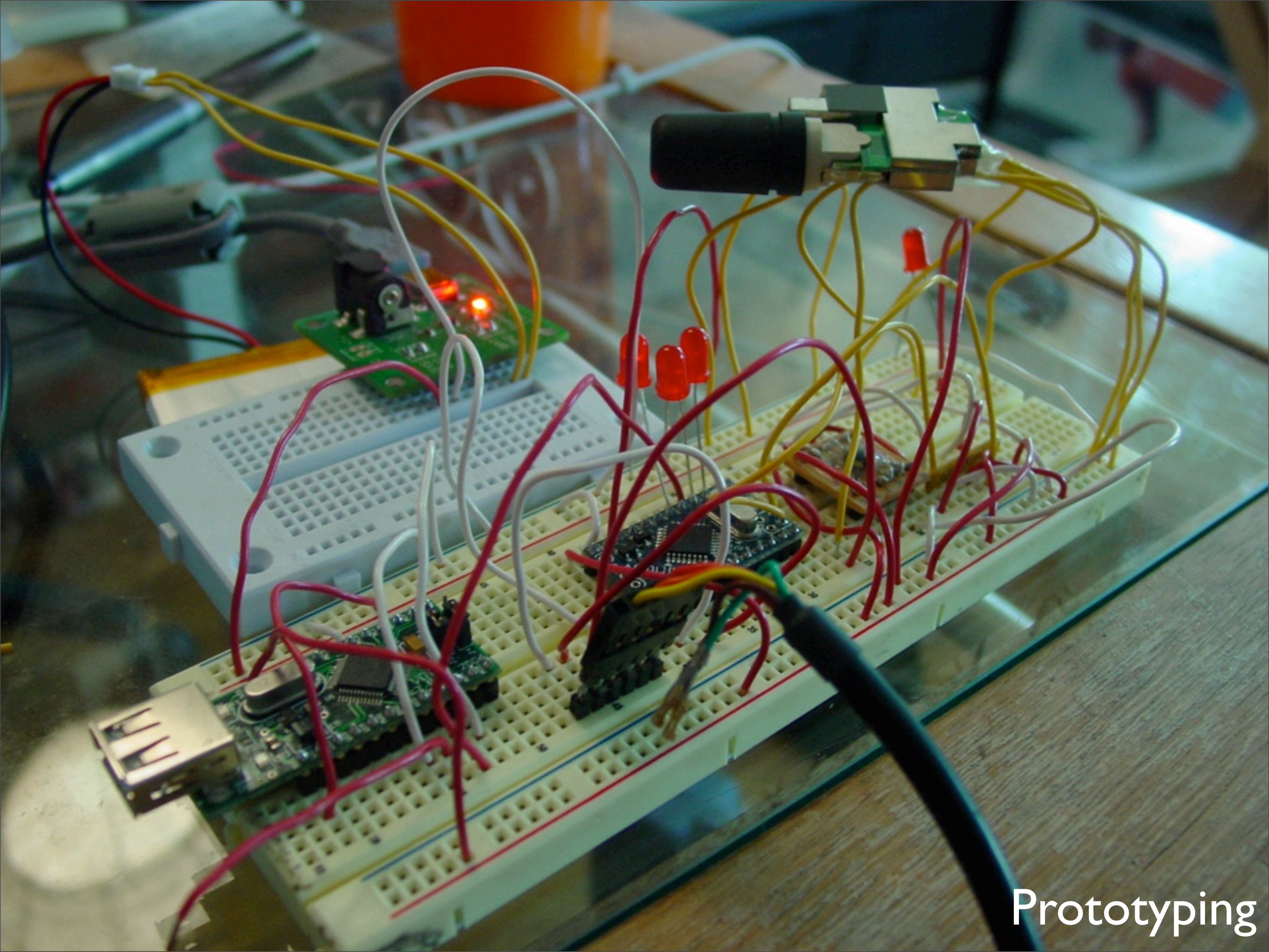
Schematic

Layout

Etching

Final Board
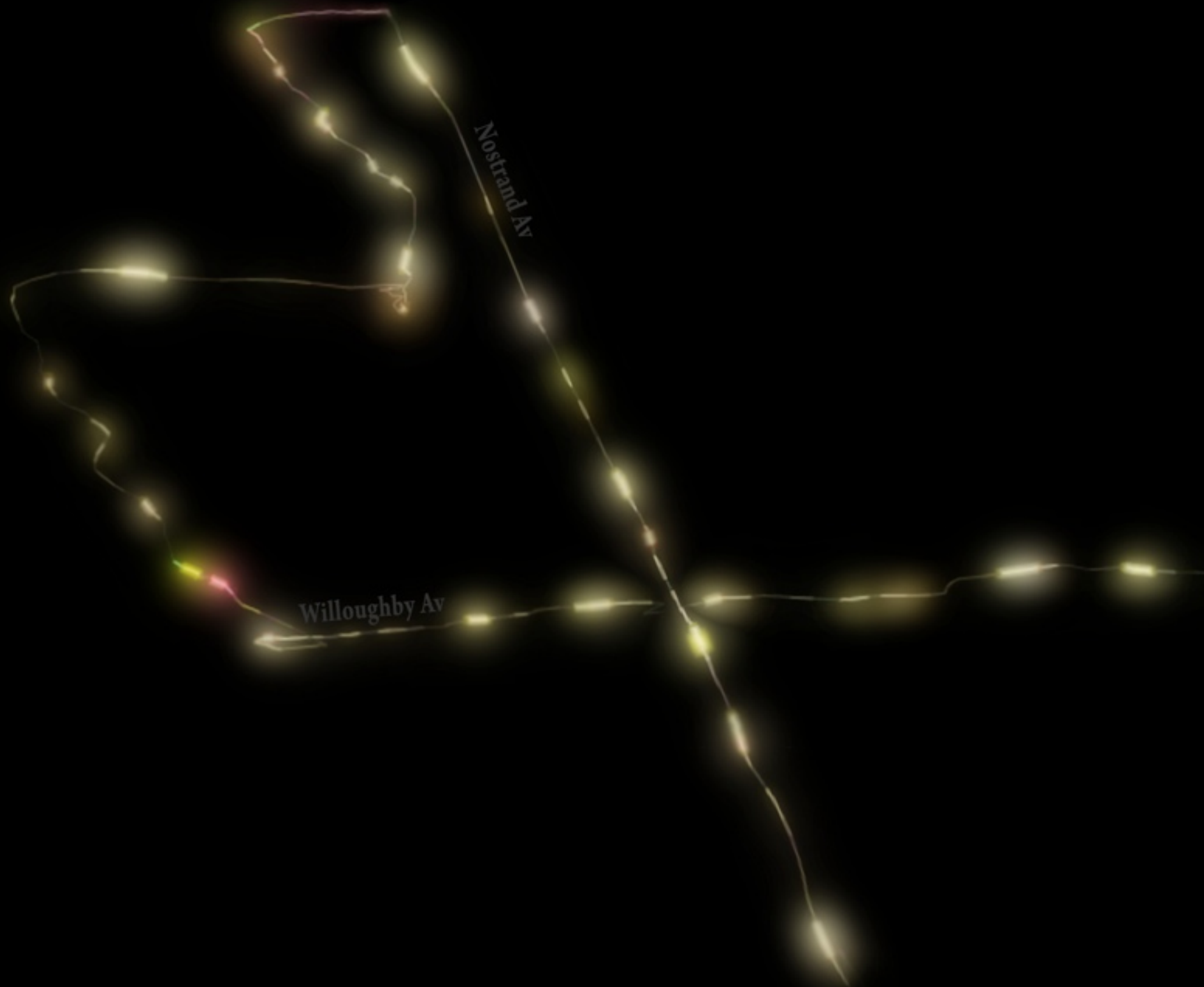
The Maps

Pratt Institute Campus

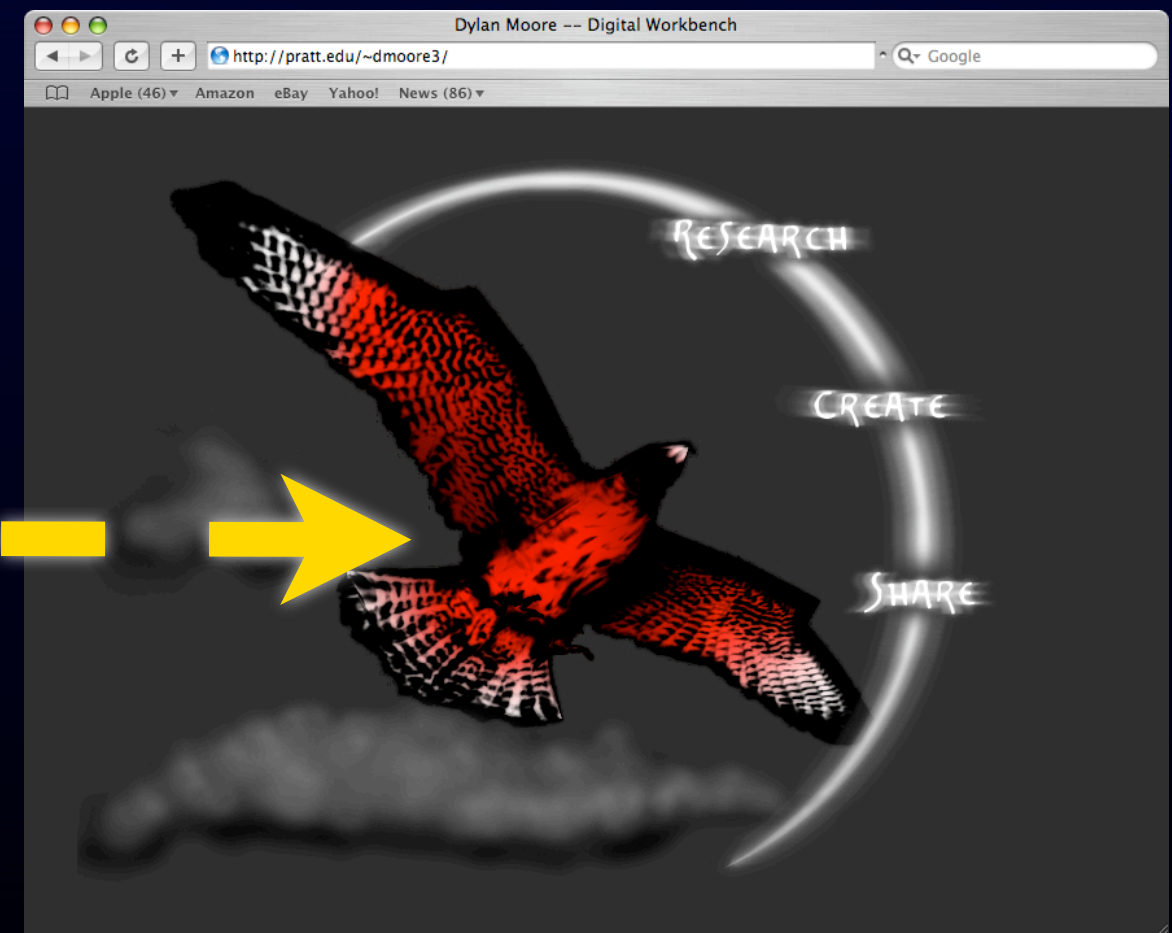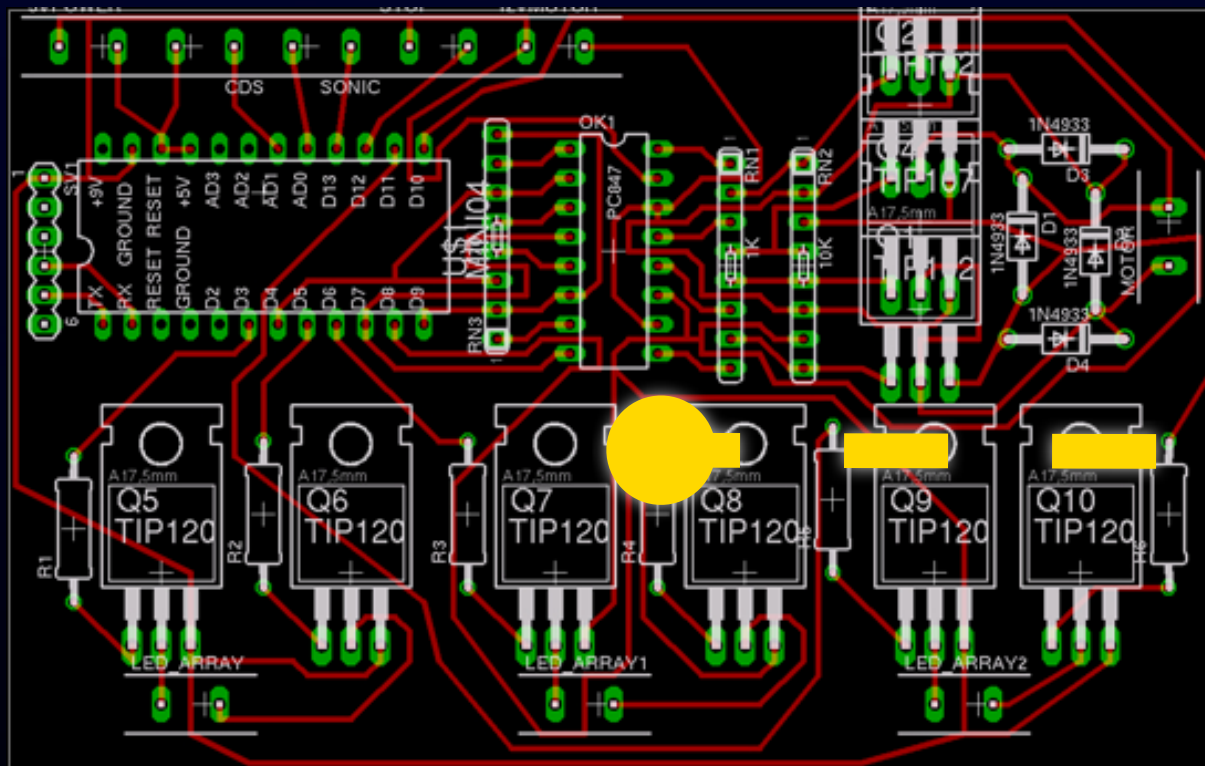Bedford Av

Nostrand Av

Willoughby Av
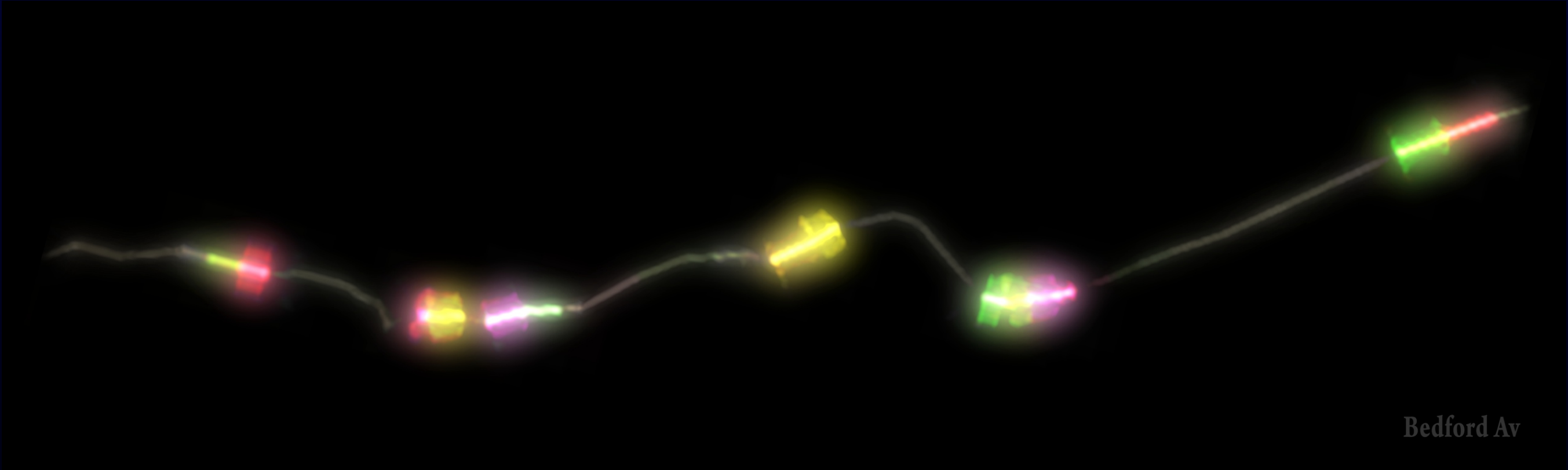
Recycled Materials and Sustainable Transportation

All electronics are ROHS compliant!

Open Sourced
All electronics will be posted for free use and modification--much like the Arduino!

Thesis Research 2008
DylanMoore@Pratt.edu