GET EXCITED & MAKE THINGS WITH SCIENCE
a f***ing space elevator
I'm @MATT_BELLIS

SCIENCE
I'm @ARIEL WALDMAN
The time has come to shut up shop. Try @overlondon or @twisst for ISS alerts. Thank for following. More details at http://j.mp/aboveretire

**ISS Pass:** mag -3.5 starts at 21:59:13 from W to W with max elevation 74deg at 22:01:58 in direction W

**Iridium Flare:** mag -3 at 21:16:46 with max elevation 22deg in direction 355deg (N) (from Iridium 4)

**ISS Pass:** mag -3.6 starts at 20:23:50 from WSW to E with max elevation 75deg at 20:26:49 in direction SSE

**ISS Pass:** mag -3.6 starts at 21:31:55 from W to E with max elevation 85deg at 21:34:52 in direction NW
lowflyingrocks 2008 CE119, ~21m-47m in diameter, just passed the Earth at 6km/s, missing by ~seven million, two hundred and ninety thousand km.
about 20 hours ago

lowflyingrocks 2002 QC7, ~280m-620m in diameter, just passed the Earth at 15km/s, missing by ~ten million, seven hundred thousand km.
1 day ago

lowflyingrocks 2003 QB30, ~14m-31m in diameter, just passed the Earth at 18km/s, missing by ~twenty-eight million, four hundred thousand km.
1 day ago

lowflyingrocks 2008 BX2, ~48m-110m in diameter, just passed the Earth at 8km/s, missing by ~twenty-three million, three hundred thousand km.
3 days ago

lowflyingrocks 2010 RF12, ~5m-12m in diameter, just passed the Earth at 8km/s, missing by ~fourteen million, three hundred thousand km.
3 days ago
NEAR EARTH OBJECT LAMP
<table>
<thead>
<tr>
<th>Rocket</th>
<th>Mass (ton)</th>
<th>Cost (million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falcon 9</td>
<td>151</td>
<td>$3,322,979</td>
</tr>
<tr>
<td>Proton</td>
<td>462</td>
<td>$881,832</td>
</tr>
<tr>
<td>Falcon 5</td>
<td>307</td>
<td>$221,250</td>
</tr>
<tr>
<td>Ariane 5</td>
<td>226</td>
<td>$102,821</td>
</tr>
<tr>
<td>X-Wing</td>
<td>20.25</td>
<td>$140,250</td>
</tr>
<tr>
<td>Atlas V</td>
<td>227</td>
<td>$121,250</td>
</tr>
<tr>
<td>Delta IV</td>
<td>307</td>
<td>$221,250</td>
</tr>
<tr>
<td>Space Shuttle</td>
<td>20.25</td>
<td>$102,821</td>
</tr>
<tr>
<td>Space Elevator</td>
<td>20.25</td>
<td>$140,250</td>
</tr>
</tbody>
</table>
## Spacelift

Choose your payload...

<table>
<thead>
<tr>
<th>Payload</th>
<th>Mass (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falcon 9</td>
<td>20,250</td>
</tr>
<tr>
<td>Proton</td>
<td>405,000,000</td>
</tr>
<tr>
<td>Ariane 5</td>
<td>661,486,500</td>
</tr>
<tr>
<td>Atlas V</td>
<td>708,750,000</td>
</tr>
<tr>
<td>Delta IV</td>
<td>1,030,198,500</td>
</tr>
</tbody>
</table>

**Falcon 9**
- Price: $98,658,000
- Quantity: 2

**Proton**
- Price: $371,769,750
- Quantity: 4

**Ariane 5**
- Price: $405,000,000
- Quantity: 3

**Atlas V**
- Price: $661,486,500
- Quantity: 2

**Delta IV**
- Price: $708,750,000
- Quantity: 2

**Space Shuttle**
- Price: $1,030,198,500
- Quantity: 6
# Spacelift

Choose your payload...

- **Tantive IV**
- Voyager 1
- TIE Fighter
- X-Wing
- B-Wing
- Millennium Falcon
- Imperial Shuttle
- USS Enterprise
- Battlestar Galactica
- Star Destroyer

## Payload Capacity

<table>
<thead>
<tr>
<th>Launch System</th>
<th>Capacity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falcon 9</td>
<td>2,491</td>
<td>$236,603,808,000</td>
</tr>
<tr>
<td>Proton</td>
<td>7,636</td>
<td>$891,586,476,000</td>
</tr>
<tr>
<td>Ariane 5</td>
<td>5,059</td>
<td>$971,280,000,000</td>
</tr>
<tr>
<td>Atlas V</td>
<td>3,736</td>
<td>$1,586,391,624,000</td>
</tr>
</tbody>
</table>
Spacelift

Choose your payload...

Voyager 1  TIE Fighter  X-Wing  B-Wing  Imperial Shuttle

Millennium Falcon  Tantive IV  USS Enterprise  Battlestar Galactica

Star Destroyer

X-Wing  

20,250KG  

1 Space Elevator  

$4,455,000

That’s a tower of pennies 6,905KM high.
That’s 2 times larger than a space elevator.
Read the stories of early space exploration from the original transcripts. Now open to the public in a searchable, linkable format.

“Must-visit for space enthusiasts” — Kim Komando Cool Site of the Day

Featured Missions

**Mercury 3 (1961)**
The 1961 Mercury mission that made pilot Alan Shepard the first American in space, one of two manned suborbital missions at the start of NASA’s programme of manned spaceflight.

**Mercury 4 (1961)**
NASA’s second suborbital mission was a success until after splashdown, when the hatch blew unexpectedly, forcing pilot Gus Grissom to egress into the water as the capsule began to sink.

**Mercury 6 (1962)**
The 1962 Mercury mission that made pilot John Glenn the first American to reach Earth orbit, with three orbits before re-entry.
“I'm right in the middle of my orange juice. Be with you in about 5 minutes.”

04 06 15 41  Michael Collins (CMP) Houston, Columbia. Reading you loud and clear. How me?


04 06 15 49  Michael Collins (CMP) Listen, babe. Everything's going just swimmingly, Beautiful.

Spoken on July 20, 1969, 7:47 p.m. UTC (42 years, 7 months ago) Link to this: http://apollo11.spacelog.org/04:06:15:49/#log-line-368

04 06 15 52  Charlie Duke (CAPCOM) Great. We're standing by for Eagle.

04 06 15 57  Michael Collins (CMP) Okay, He's coming along.

04 06 16 00  Charlie Duke (CAPCOM) We copy. Out.

04 06 16 09  Charlie Duke (CAPCOM) And, Columbia, Houston. We expect to lose your high gain sometime during the powered descent. Over.
Old Weather: Our Weather’s Past, the Climate’s Future

Introduction
Help scientists recover worldwide weather observations made by Royal Navy ships around the time of World War I. These transcriptions will contribute to climate research around the world.

Project Statistics
Old Weather transcriptions so far
Classify galaxies

Answer the question below using the buttons provided.

Is the galaxy simply smooth and rounded, with no sign of a disk?

[Smooth] [Features or disk] [Star or artifact]
Cadet adactio
0 weather reports on 0 pages contributed to this voyage. 30 weather reports more for promotion to Lieutenant

Enter the date of the logbook

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Weather</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day</td>
<td>Month</td>
<td>Year</td>
<td></td>
</tr>
</tbody>
</table>

1. Date

H.M.S. “Weymouth”

Tuesday the 8th day of July
or At Barbados

Map and timeline
SPACETIME SMASHER
Particle Windchime

Using data from the world's particle collision event, a particle detector app can transform the universe playing that instrument. Using data from the world's particle collision event will play its detector, which can be configured exactly how you want your instrument based on how it reacts to the properties of collision. Explore the fundamental laws of the universe through sound. Listen carefully to discover the Higgs boson!
Particle Windchime

Turn a particle detector into a custom instrument with the fundamental interactions of the universe playing that instrument. Using data from the world's particle colliders, each collision event will play its detector, which can be configured exactly how you want. You define your instrument based on how it reacts to the properties of colliding particles and explore the fundamental laws of the universe through sound. Listen carefully and you might discover the Higgs boson.

Note: This demo doesn’t yet work via the web. You have to install it, run it locally by following the instructions in the README found in the source code.

Data Set

Field | Description
--- | ---
Ge | Ge.
Date | Date.
Pitch | Pitch.
Duration | Duration.
Volume | Volume.
Instrument | Instrument.

Values | Description
--- | ---
PD | Particle ID.
Charge | Electrical Charge (plus, minus, or zero).
Energy | Total energy of particle.
X | X-position of the interaction.
Y | Y-position of the interaction.
Z | Z-position of the interaction.
Radius | Distance from point of collision.
Time | Clock-time since collision.
P_x | X-direction of movement.
P_y | Y-direction of movement.
P_z | Z-direction of movement.
P-phi | Angular Direction (Polar).
P-theta | Angular Direction (Azimuthal).

Source Code

Our code can be found on GitHub.

Windchime Hacks:

MIT Belle mbelle@stanford.edu
Derek Carright dcarriege
David Harris harrisda
Jeremy Nuzzo
Michel Parrish mparrish
Jennie Scott jenniescott
Ole Wulffman owulffman

More Info

![Collisions.png](attachment:Collisions.png)
95% OF EVERYTHING IS INVISIBLE
this is a friendly universe.
DARK ENERGY
95% of everything is invisible

NASA, ESA, MASSEY
SUPERPOWERS?
SENSE
AFFORDANCES
What is the Google Chart API?

The Google Chart API lets you dynamically generate charts with a URL string. You can embed these charts on your web page, or download the image for local or offline use.

What Kind of Charts Can I Make?

You can make a lot of things with the Google Chart API:

Some things that look like charts...

And some that don’t...

Average Electric Usage

Your Usage: 15kw

0  

<table>
<thead>
<tr>
<th>225</th>
<th>270</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>90</td>
</tr>
<tr>
<td>45</td>
<td>0</td>
</tr>
</tbody>
</table>

50 Kb

March
April
January
February

Prerequisites

To use this API, you should have a little HTML experience; a little patience to read the documentation; and a little persistence to keep trying if your first charts don’t look as you expect them to.

How Do I Start?

1. Read the Getting Started page.
2. Look at some charts in the gallery.
3. Try making your own chart on our chart wizard.

Related Tools:

- Google Chart Tools (Interactive charts)
- Infographics (Pins and icons, etc)
show tables
necolas commented on issue 1005 on h5bp/html5-boilerplate 22 minutes ago

ArnaudDelafosse started following adactio 7 hours ago
adactio has 8 public repos and 127 followers

paulirish started following slightlyoff 12 hours ago
slightlyoff has 2 public repos and 4 followers

paulirish started watching slightlyoff/cassowary-js-refactor 12 hours ago
cassowary-js-refactor's description:
Repo for tracking my changes to the JS Cassowary port:
http://www.badros.com/greg/cassowary/js/quaddemo.html

Bugster closed issue 1007 on h5bp/html5-boilerplate a day ago
HTML Compressor failing when compressing non-JS script tags

Bugster commented on issue 1007 on h5bp/html5-boilerplate a day ago
Alright then, thanks

KenanY edited the h5bp/html5-boilerplate wiki a day ago
Edited Sites using HTML5 Boilerplate. View the diff »
GET YOUR HANDS DUSTY
Black Holes

Previous Video: French Invasion of Russia

Next Video: Glucose Insulin
YAY FOR HACK DAYS
THANK YOU.

ADACTIO.COM
ARIELWALDMAN.COM
MATTBELLIS.COM