



TreeViz — A user-friendly platform for visualizing tree growth

By Team TreeViz

Riley McWilliams, Qi Han, Haitian Tang, Daniel Rustrum, Alex Bentley
Mentor: Isaac Shaffer

Purpose and Potential

Load Flow and Security Analysis AC

LFAC input

Parameters test P E par Get default

Network test G P E psa

Graphic test G nek

INC INK Edit cumulated INC and INK G

Clear INC

1	E	6	E
2	E	7	E
3	E	8	E
4	E	9	E
5	E	10	E

LFAC output

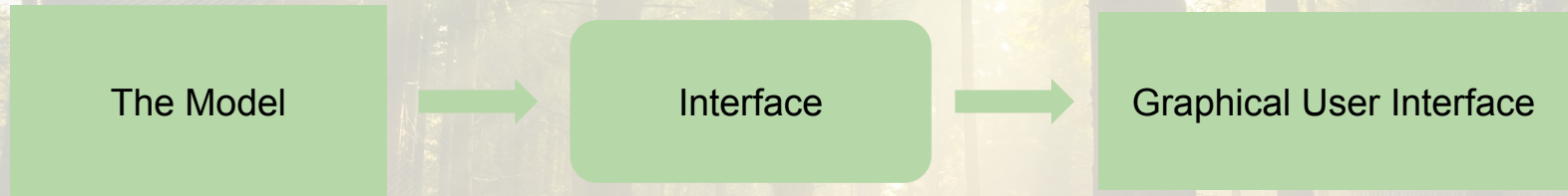
Report test_lfac E ac1

Binary test_lfac psb psb = ac1

Result test_lfac G pla



Interfacing with the Model



Our Client

Dr. Kiona Ogle - Ogle Labs



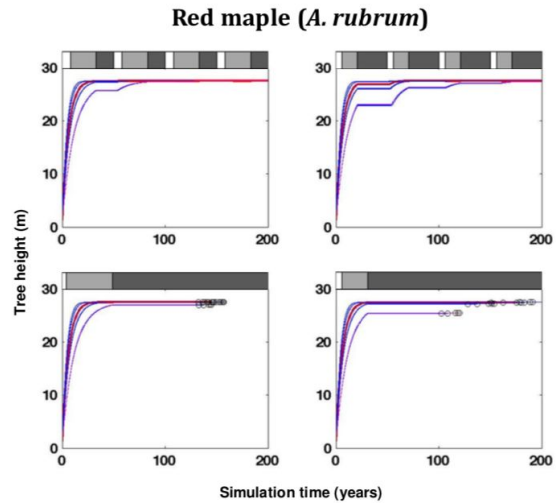
Expertise

- Climate Change
- Botany
- Ecosystems
- Species Adaptation



What Our Role Is

Predicted growth: red maple



Our Plan

1.



2.



Conclusion



Reference

Cover background image:

https://www.google.com/search?biw=1920&bih=957&tbs=isz%3A&tbm=isch&sxsrf=ACYBGNSmI5YFK2MP0n3s-S7pySjwUudSKw%3A1569997498896&sa=1&ei=ukKUXeKvNt280PEPltSoWA&q=forest+&oq=forest+&gs_l=img.3..35i39j0i12l2j0i12j0l4.119391.119885..120381...0.0.0.86.330.4.....0....1..gws-wiz-img.....0i30.ZoelKcq-T08&ved=0ahUKEwji9OC5-PzkAhVdHjQIHRYqCgsQ4dUDCAc&uact=5#imgrc=LtLoUnBSMCOH8M:

Content background images

https://www.google.com/search?q=forest&tbm=isch&sxsrf=ACYBGNTAurGLfw6pd1iSCu2zKGXp0n98iw:1569999047339&source=ln&tbs=isz:l&sa=X&ved=0ahUKEwikrl6c_vzkAhUYIzQIHxzpDb4QpwUIJA&biw=1920&bih=957&dpr=1#imgrc=4FqUBYqjluppFM:

Team Image:

https://www.google.com/search?rlz=1C1CHBF_enUS865US865&biw=1368&bih=792&tbm=isch&sxsrf=ACYBGNQTM7dFd0DH5HWV4QfDplsVkBe61g%3A1570079576685&sa=1&ei=WIOVXaa3KaW7tgWNoazoDw&q=Excited+team&oq=Excited+team&gs_l=img.3..0l3.324861.326845..327125...0.0.0.215.1634.2j9j1.....0....1..gws-wiz-img.....35i39j0i67.YMuzcQR_wAQ&ved=0ahUKEwimw7-bqv_kAhWlna0KHYY0QC_0Q4dUDCAc&uact=5#imgrc=DhT7N85bJUEfOM:

Tree Image:

https://www.google.com/search?rlz=1C1CHBF_enUS865US865&biw=1368&bih=841&tbm=isch&sxsrf=ACYBGNSAxjLw8KViRullUUiC5Hc0w633g%3A1570078049266&sa=1&ei=YX2VXbjrD8SWsAWIt4OQBQ&q=60000+types+trees&oq=60000+types+trees&gs_l=img.3...7088.8432..8561...0.0.0.185.761.2j4.....0....1..gws-wiz-img.....35i39.3Yurkesd8ps&ved=0ahUKEwj4n5XDpP_kAhVEVC6wKHYjbAFIQ4dUDCAc&uact=5#imgrc=-ym9TLWNh391lM:

Reference

Web App Image:

https://www.google.com/search?rlz=1C1CHBF_enUS865US865&biw=1368&bih=792&tbm=isch&sxsr=ACYBGNRLj4ebgcWeVKhEayuDZkjG1tWq9Q%3A1570079236742&sa=1&ei=BIKVXanxLIWgsQWMhJTADQ&q=web+application&oq=Web+app&gs_l=img.3.0.0l10.138781.139949..141315...0.0..0.191.847.2j5.....0....1..gws-wiz-img.....35i39j0i67.WFkX2kXCj54#imgrc=gUCrlnsIZyg3QM:

Tree Type Image:

https://www.google.com/search?rlz=1C1CHBF_enUS865US865&biw=1368&bih=792&tbm=isch&sxsr=ACYBGNRqsJ_YiO9hULpyUYJtSg6auyYifA%3A1570079379074&sa=1&ei=k4KVXY6cBMSgsQXdorjABw&q=tree+types&oq=tree+types&gs_l=img.3..0l10.192650.195749..196400...0.0..0.263.1567.0j7j3.....0....1..gws-wiz-img.....35i39j0i67.e-Rr1SSlyPw&ved=0ahUKEwjOsaK9qf_kAhVEUKwKHV0RDngQ4dUDCAc&uact=5#imgrc=9lN62LeWoSI0M:

Red Maple tree image:

<https://www.google.com/search?q=red+maple&tbs=isz:l,ic:trans&tbm=isch&sxsr=ACYBGNSlvZuMruUjUlskg9vw1UZbYA3c5g:1570151627400&source=Int&sa=X&ved=0ahUKEwj8kPrPtoHlAhVsHDQIHbTYC4lQpwUllw&biw=1920&bih=958&dpr=1#imgrc=-Nrp3jCXd6tXOM:>