Random Hacks of Kindness

HACKING FOR HUMANITY:
INCREASING PARTICIPATION IN
HUMANITARIAN FREE/OPEN SOURCE
SOFTWARE DEVELOPMENT THROUGH
"RANDOM HACKS OF KINDNESS"
GLOBAL HACKATHONS

Capstone Project Report in Fulfillment of Master of Science Degree in Professional Studies at RIT's Center For Multidisciplinary Studies



J. R. DeCausemaker May 15th, 2013



Random Hacks of Kindness Who Am I?

RIT Lab for Technological Literacy

Research Associate 2011 to present

RIT Center for Student Innovation

Hacktivist & Storyteller 2009 to present

Opensource.com

Contributing Author 2009 to Present

CIVX us

Co-Founder
2008 to Present

NTID/PEN International

Educational Coordinator 2010

Software Freedom Law Center

Campaign Volunteer 2008

New York Public Interest Research Group

Community Outreach Director 2007-2008

Who Am I?

A.A.S. Business 'O&

Organizational Change & Leadership Certificate 'O&

B.S. Applied Arts Sciences 'O&

Concentrations: Business, Writing Studies, Organizational Change & Leadership, Political Science

M.S. Professional Studies '13

Concentrations: Communications & Media Technology and Public Policy

Course Concentrations

Communications

Electronic Communications & Society

Crafting the Message

Digital Design

Public Policy

Special Topics: Community Economic Development

Public Administration & Management

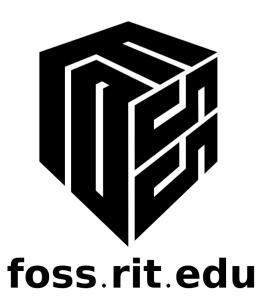
Science/Technology Policy Seminar

Free/Open Source Software (unofficial)

Special Topics: Security Technology

Seminar in Interactive Games & Media

Humanitarian Free/Open Source Software Development



Presentation Overview

- 1 Course Concentrations 7 Steps Taken
- 2 Contexts & Trends
- 3 Problem Background
- 4 Project Overview
 - 5 Project Objectives 11 Attribution
 - 6 Project Timeline

- 8 Project Results
 - 9 Next Steps
 - 10 Lessons Learned

 - 12 Resources

Random Hacking for Humanity Random Hacking for Humanity Background

- Thousands of volunteers who answer the call to service each year, though motivated, do not possess the requisite technical skills to build their own solutions.
- Aid organizations must prioritize their budgets to meet physical needs first.
 - Technology solutions are often prohibitively expensive
 - And are problematic to fund due to intellectual property issues.
- Technical professionals are in high demanda
 - often drawn to high technology regions with highsalary, private sector jobs (not volunteer work) to repay the high-cost of education.
- Even with the efforts of Humanitarian hackers doing weekend or side projects, there are still many, many more problems than problem solvers.

Two cutting edge 21st Century Movements

Participatory Development

- People in need work with developers to improve their own lives
- Provides sense of ownership
- More sustainable and effective

Free/Open Source Software

- Programmers around the world Work together to build tools
- Raise standard of living for themselves and their communities



Secretary General, United Nations

2nd Annual Random Hacks of Kindness Keynote Address

http://www.unglobalpulse.org/blog/un-secretary-general-appeals-global-open-source-community

Learning Objectives

Communications

Needed for nearly all stages of Project

Ethical Reasoning

The premise of the entire capstone was "Hacking for Humanity"

Critical Thinking

Considering short/long term benefits

Maximize effort, conserve energy

Problem Solving

Choose specific challenges and real-world problems

Integrated learning

Learning by doing. Computer and Citizen science applied.

Hacking for Humanity

Random Hacks Prosject Overview

Pre-Capstone Activities

Organize and Run a "Hackathon"

- Coding + Marthon = Hackathon
- 24+ hour Social Coding Event
- Work on Challenges submitted by NGO's Aid
 Organizations and Volunteers

Capstone Activities

Create and tell the Story

- Report
- Presentation
- Visualization

Publish and Distribute the Results

• Narrative and Source Code

Week 17

Wei

Timeline

Random Hacks of Kindness								rhok.	
Name	Work	Apr 2					or 2013		
		Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	
Research History of RHoK	2d								
Compile Local Coverage	2d]	- I						
Compile Brief History	3d		<u> </u>						
Locate Code Repositories	5d				7 I				
Adapt Gource Script	10d						-		
Compose Backdrop and Art	2d						Ъ		
Render Gource Video	3d								
Compose Narrative Account	10d								
Develop Draft Report	16d				1				
Edit Draft Report	5d								
Develop Presentation	5d								
Defend Capstone	1d								

Pre-Capstone Activities

- 1. Get the Idea
- 2. Apply for License
- 3. Schedule the Venue
- 4. Create the Flyer
- 5. Create the Event Listing
- 6. Attend the CapitolCamp Conference (Albany, NY)
- 7. Draft the Press Release
- 8. Confirm the Keynotes
- 9. Release Press Release

- 10. Secure the Swag
- ll. Conduct the Radio
 Interview
- 12. Handle the Keynotes
- 13. Run The Event at RIT
- 14. Meet the Press
- 15. Serve the Meals
- 16. MC the Presentations
- 17. Catch my breath

Random HacCapstone Activities

- 17. Research RHoK Organization
- 18. Compile Press Coverage
- 19. Review Literature
- 20. Locate Code Repositories
- 21. Adapt Multi-Gource Scripts
- 22. Adapt RHoK-Media Artwork
- 23. Produce Report
- 24. Produce Presentation
- 25. Defend Capstone

Random Hacks of Kindness

Project Results

Media Reports Hackathon Outcomes Source Code Visualization Random Hacks of Kindness

Media Reports

RIT Press Release Random Hacks of Kindness



contact us »

April 19, 2013













Stories by Category

Alumni

Arts & Imaging

Athletics

Business

Computing

Deaf Community

Engineering

Global

Liberal Arts

Science

Student Affairs

Sustainability

Colleges

RIT Media

RIT Resources

For Journalists

Hacking for Humanity: RIT Participates in Global Hack-a-thon to Affect Change

Event is part of Random Hacks of Kindness Global Hack-a-thon 2012

Nov. 27, 2012 by Kelly Sorensen Follow RITNEWS on Twitter

Random Hacks of Kindness is an innovative twist on what are traditionally known as random acts of kindness. It's a global initiative made up of a community of more than 5,500 innovators in more than 30 countries developing open source technology to address some of the world's most complex issues.



Rochester Institute of Technology is participating and is a host site of the Random Hacks of Kindness Global Hack-a-thon

from 9 p.m. Dec. 1 to 9 p.m. Dec. 2 in Student Innovation Hall in the University Services Center on the RIT campus. The event is free and anyone is welcome to participate. To register, go to https://rhoktheroc2012.eventbrite.com.

Random Hacks of Kindness has hosted four global events to date with more than 4,000 participants. Governments, emergency responders and citizens have used the solutions developed by this community.

RIT students and faculty will be among those working with federal, state and international organizations at this weekend's global event. Organizations such as the Peace Corps have identified issues their volunteers are facing in the field, posting a list of problems on its website to be addressed during the hack-a-thon. Participants also will have the opportunity to help New York residents affected by Hurricane Sandy with a mobile website for Gov. Andrew Cuomo's storm resources page that's currently in the prototype stage.

Sean Herron, a member of NASA's Open Government team, will be among those attending the event. He works to facilitate open source and open data projects throughout the agency and promotes the use of technology solutions to solve common problems. Herron previously worked in the Space Operations Office at NASA headquarters, where he contributed to public outreach projects involving the space shuttle and International Space Station. He is an avid Web developer and advocate for engaging the public in NASA's mission of exploration and discovery.

Also in attendance will be Rob Bishop, a developer with the Raspberry Pi Foundation, a charitable organization founded with the goal of promoting the study of computer science and other related topics.

Global sponsors of Random Hacks of Kindness include The World Bank, NASA, HP, Google, Microsoft and others. RIT's event is sponsored by The Office of the RIT Associate Provost of International Education and Global Programs, the Simone Center for Student Innovation and Entrepreneurship and the RIT Lab for Technological Literacy. The Lab for Technological Literacy is sponsored by StormFrog Inc. and Red Hat Inc.

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Local Press

Hacking for Humanity

Random Hacks of Kindness

HenriettaPost.com

RIT to participate in Random Hacks of Kindness

By Staff reports GateHouse News Service

Posted Nov 27, 2012 @ 02:47 PM

Rochester, N.Y. — Rochester Institute of Technology is participating and is a host site of the **Random Hacks of Kindness** Global Hack-a-thon from 9 p.m. Saturday, Dec. 1, to 9 p.m. Sunday, Dec. 2, in Student Innovation Hall in the University Services Center on the RIT campus.

The event is free and anyone is welcome to participate. To register, go to https://rhoktheroc2012.eventbrite.com.

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RadarFrog Merchant Directory | Internet Marketing by Propel Marketing | RadarFrog

WXXI 1370AM Radio: Interview with Bob Smith

http://foss.rit.edu/media/WXXI-AM%201370%20(am-hi)%20-%20.wav



Hacking for Humanity

Random Hacks of KinYNN News Clip

http://foss.rit.edu/media/YNN_RHoK.mp4



Random Hacks of LiBWHAM News Clip Macking for Humanity

http://foss.rit.edu/media/13WHAM_RHoK.mp4



YNN Online Article of Humanity

Random Hacks of Kindness

Rochester





12/01/2012 11:12 PM

Hacks of Kindness Comes to Rochester

By: YNN Staff

Students at RIT took part in a global initiative with a twist, using technology to help solve problems through Hacking for Humanity.

The event is the fifth global event of Random Hacks of Kindness, an event that is made up of thousands of innovators in 30 countries.

RIT was a host site for the event where anyone could help develop solutions through technology that government, emergency responders and citizens can use to address common problems.

"A Hackathon is just coding and and marathon so we're going to be going for 24 hours here in The Center for Student Innovation at RIT," said Remy DeCausemaker, Research Associate for RIT. "Community members and students, industry folks are all going to be working together to solve problems for volunteer and aid workers around the world."

Global sponsors of Random Hacks of Kindness include NASA, Google, Microsoft and others.

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13WHAM Online Article

Random Hacks Of Kindness At RIT Addressing Complex Issues



Published: 12/02 6:45 pm Updated: 12/02 7:02 pm

Henrietta, N.Y. – Students at Rochester Institute of Technology took part in Random Hacks of Kindness Global Hack-a-thon this weekend. The mission of the event is to create open source technology to address some of the world's most complex issues.

The Hackathon goes from 9 p.m. Saturday to 9 p.m. Sunday.

RIT's Student Innovation Hall is a host site for the event. The Hackathon is a global initiative made up of more than 5,500 developers, designers and artists in more than 30 countries.

At RIT, students are working on projects to help volunteers working in developing countries.

"We have everything going on from open hardware that pulls down radio signals and satellite data from NASA, to a tool that takes an SMS text message that someone in the field can send, it will will automatically update a spreadsheet for accounting purposes because a lot of people in developing countries don't have a constant connection to the internet like we do here. So that's a great way to keep projects up to date, to account, and to help keep donors up to date with what field activies are happening," said RIT Research Associate Remy Decausemaker.

Decausemaker also made clear that there are a few local ties to some of the projects that students are working on.

"We have a project where we're going through all of the Henrietta town meeting minutes to make them searchable by keyword, and to turr the PDFs into machine-readable text," he said. "We want to do that for other parts of Rochester as well."

Students are working with state, federal, and international organizations. Currently, a mobile website for Gov. Andrew Cuomo's storm resources page is in the prototype stage and needs improvements before it can be used.

Also in attendance at the event was Sean Herron, a member of NASA's Open Government team, and Rob Bishop, a developer with the Raspberry Pi Foundation, a charitable organization founded with the goal of promoting the study of computer science and other related topics.



seanherron

Checking out the Google Games hackathon at RIT. They had three simultaneous hack days today! #rhok http://t.co/Hq7W3lb3 Dec 1st, 2012 at 3:25pm

Random Hacks of Kindness has hosted four global events to date.

Democrat & Chronicle

Random Hacks of Kindness

'Hackathon' offers solutions for dilemmas

Justin Murphy

Staff writer

For a group of volunteers doing important international philanthropy, the programmers huddled around laptops at Rochester Institute of Technology Sunday were strangely silent.

There was some typing and an occasional whispered conversation in the inscrutable language of computer coding, but mostly the good work — projects that could benefit millions of people locally and around the world — was done in perfect silence.

Empty pizza boxes and two-liter bottles of Mountain Dew paid a messy test-



Coffie



DeCausemaker

ament to the programmers' 24 hours of work as part of Random Hacks of Kindness, a 6-year-old international programming event that had its first Rochester offshoot this year.

The concept is to apply computer ex-

perts' talents to specific, pressing problems that nonprofits and other publicminded organizations face. Participants select a dilemma and try to solve it in a highly caffeinated, non-stop, 24-hour 'hackathon.'

"The term 'hacker' has sort of a negative connotation these days," said Remy DeCausemaker, a research associate at RIT's Lab for Technological Literacy and one of the hackathon's organizers. "We're trying to reclaim the title. 'Hacker' just means creator, or problem solver, as far as we're concerned."

The Rochester hackers - about 50

See HACKERS, Page 4B

Hackers

Continued from Page 1B

students, professors and community members tackled half a dozen problems in small groups. Some worked on Monroe Minutes, a project by Hacks/Hackers Rochester that indexes meeting minutes from local public meetings by topic in a searchable database. Others created a text message-based system whereby Peace Corps volunteers in remote locations can input accounting data to spreadsheets when they don't

have access to a computer, saving travel time.

The largest group was working on a mobile version of New York's disaster preparedness website. The state realized when Post-Tropical Storm Sandy hit that most people were accessing that information on their cellphones, where the site was more difficult to use.

Since 9 p.m. Saturday, two teams of programmers created a mobile version of the site that will be returned to the state free of charge. No lengthy and expensive bidding process, no months of waiting for a

finished product.

"This isn't just for the future," said Brian Moyer of StormFrog, a Victor mobile technology company. "There are still people downstafe who don't have services."

The work done at RIT's hackathon will remain open-source, meaning other programmers can use it or adapt it to their own projects.

For second-year RIT student Caleb Coffie, the hackathon was his first. He worked on the text-messaging accounting system, which was mostly functional by 5 p.m.

"It was surprising to actually get something working out of this," he said. "It was nice to see you can help someone in the real world with programming."

JMURPHY7@DemocratandChronicle.com Twitter.com/CitizenMurphy

RIT Reporter

Random Hacks of Kindness **REPORTER**ONLINE

http://www.reportermag.com/article/2926

What it Means to Be a Hacker by David Utt

Sitting slightly in front of their computers programing, coding and designing the night and day away, the hackers gathered here are slowly changing the world with every passing hour. This is the Random Hacks of Kindness event (RHoK). The event is founded on concepts such as goodwill and charity. As Remy DeCausemaker, Research Associate for the CIS/IGM Lab for Technological Literacy and event coordinator of RHoK, says, "We're here to take back the hacker name as a creative problem solver." Here, they are hacking the world for a better tomorrow.



12.14.2012 | News

RHoK has one objective: to help create a collection of applications to help non-profits in 24 hours. These projects range from helping members of the Peace Corps with an SMS ledger system that tracks member's whereabouts, a Hurricane Sandy mobile app and language lesson generators. These apps were possible in such a short time span, as RIT students were not working alone. As part of a satellite event, it is scheduled as a single 24-hour block so the 20 or so students here in Rochester would work in tandem with the other RHoK events across the globe. This includes over 5,000 hackers in over 30 countries: Spain, Britain, Uganda, Nairobi, Brazil, India and Australia just to name a few. This allows RIT's small contingent to work in real-time with a multitude of hackers, with each adding their own innovations to these global problems.

Since the initial RHoK hackathon in San Francisco, the event has grown not only in the amount of participants but also in recognition by larger corporations and agencies such as Microsoft, Yahoo, Google, World Bank and NASA, One member of these organizations, Sean Herron, is the technology strategist for NASA's Open Government team, a division of NASA that works with the public to help find solutions to research and technology problems that impact human health and performance in short and long duration human spaceflight.

When asked about how a major government body such as NASA got involved with RHoK, Herron found that what students here are doing correlates greatly with what he and the other NASA employees are doing back in Washington D.C. In one way, the Apollo 13 explosion was the first case of a hackathon, "where a group of engineers, scientist and programmers from Houston with a limited amount of time had to solve a very important problem". Additionally the work NASA's Open Government team is trying to find solutions in problems of short and long term human spaceflight, many of those same issues are the same ones RhoK participants are trying to solve for third world countries.

Participants Andrew Fallows, a fifth year Software Engineering student, and Caleb Coffie, a second year Information Science and Forensics major, found the hackathon to have a much larger impact on themselves than they first assumed. While first going in with no real idea of what they could contribute, they noted they noted that whatever would come about, "It's not about making money or something to put on the resume, but about making a difference," Fallows and Coffie had developed the framework of a full working Peace Corps SMS ledger.

RHoK allows RIT students to take a break from worrying about career-oriented schedules and lifestyles and use the skills they've learned to make a real difference in the worldwide community. This is not just band of programmers and coders as the name might imply, but about being a creative problem solver. Those who are designers, illustrators, journalists and analysts all have the abilities to contribute to the cause. When January 18 arrives, RHoK will return for the American Greeting

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For more information on RHoK, check out http://rhok.org.

Random Hacks of Kindness

Outcomes

Projects Developed MultiGource Source Code Visualization

Random Hacks of Kindnes Radio Bird

A project using a commodity radio antenna hooked up to a Raspberry Pi that creates a Software defined radio. Can be used to tap into a number of frequencies, including transmissions from NASA Satellites

Source Code:

https://github.com/skykooler/radiobird

Random Hacks of Kindness Outages

A live map of power outages in the North Eastern US, based on data feeds from National Grid and other Power Companies.

Source Code:

https://github.com/gregjurman/outages

Random Hacks of Kin Peacestagram

A webapp that shows a gallery of all the instatgram photos of PeaceCorps volunteers around the world, by searching for pictures tagged with terms like "PeaceCorps," or the names of Host Countries.

Source Code:

https://github.com/seanherron/peacestagram

lacking for Humanity

Random Hacks of Monroe Minutes

Tools to scrape websites within Monroe County and pull meeting minutes and other important documents from various village, town, city, and county websites, and convert them to machine-readable text. These are then indexed using a histogram method with keyword rejection via a black list of common words to exclude from results.

Source Code:

https://github.com/thequbit/monroeminutes

Random Hacks of KindneRHoK-Media

A repository of art and design assets such as wallpapers, badges, and PowerPoint templates, based on the Random Hacks of Kindness logos and color palette.

Source Code:

https://github.com/JennX/RHoK-Media

Random Hacks of Kindne PNC Notify

A project to notify expecting mothers with health prenatal care information during their pregnancy over SMS.

Source Code (Deleted): https://github.com/adamhayes/pnc_notify

SMS-to-Spreadsheet

Web application to allow users to send SMS messages to a designated phone number, and the contents of the message will be parsed and used to update a spreadsheet.

Source Code:

https://github.com/kaldrenon/sms_to_spreadsheet

Hurricane Sandy Relief

A mobile storm resources site to accompany http://governor.ny.gov/storm-resources that will:

- 1) aggregate all of the disparate data into one comprehensive data source, and
- 2) provide a mobile view of the information from the Governor's website, using Drupal as the underlying content management system

Source Code:

https://github.com/stormfrog/hurricane-sandy-relief

Random Hacks of Kindness: Four years of Hacking for Humanity

> Multi-Gource Source Code Visualization

Next Steps

The Capstone Report
The Visualization
The Projects

For the Capstone Report

Publish on Github.com

Publish as a guide/resource/narrative on RhoK.org

Publish a Feature-Length Article for Opensource.com?

Publish as part of a collection of Essays? Maybe chapter of a book?

For the Multi-Gource Visualization

Release rendered video on Youtube com

Link to video on RhoK.org

Release log generation/colorization scripts on Github.com

Hacking for Humanity

Suppose of the second second

Random Hacks of Foress The Projects

Each repository publicly available and ready for contributors.

Run RhoK Hackathon again in December.

SMS-To-Spreadsheet

- part of an ongoing effort--between our laba and the PeaceCorps Special Assistant to the Director of Innovation--to test and possibly deploy in the field with active PeaceCorps Volunteers (PCVs)

What I'd Like to See Happen?

The story being told--on the sites mentioned prior, and elsewhere.

increase in number of local participants

increase in project awareness and activity
 - more press, more contributors, etc...

increase in awareness and publicity of RHoK Organization world-wide.

increase in new projects (both technical and non-technical) built at future events.

After the MS degree?

- Continue "Being the Change" at the new RIT MAGIC Center—http://magic.rit.edu
- Continue to research and develop HFOSS projects
- Begin teaching Humanitarian Free/Open Source Software Development (HFOSS) course at RIT
 - 16 students already registered!
- Help RIT build the first Minor in Humanitarian Free/Open Source software development in the USA

Random Hacks of Kindness

Lessons Learned

What went right
What I would do differently
Advice to future students

Random Hacks o What Went Right?

The Hackathon itself

5Dish attendees creating or improving & projects

The Gource Visualization

It sure is pretty

The Press--Definitely the Press

- 2 Television News Casts
- 1 Radio Interview
- 7 write-ups, both online and print

What you would do differently?

Connect with Other Sites

Work together with other cities Video Conferencing/Broadcasting

Draw a more diverse crowd

More creative/design folks
More non-student attendees
More Female attendees
More local companies

Advice to future Capstone students?

Do something you truly enjoy

Pick something that is already part of your professional life

Do something "BIGGER" than just a paper: have a cause make a difference!

Talk to and work with as many people as you can before/during/after to help you prepare promote and celebrate your Capstone!

Random Hacks of Kindness THANK YOU

To the hackers who contributed to: Gource and MultiGource

https://code.google.com/p/gource/people/list

https://github.com/Frencil/MultiGource

LibreOffice Writer and Impress https://www.libreoffice.org/aboutus/credits/

Random Hacks of Kindness THANK YOU

To Dr. Sam McQuade, who challenged me to be the best student I could be and gave me the opportunity to do so.

To Abby Berner, now Abby Cantwell, is the reason why I was able to make it through my first degree, and without which a second would not have been possible.

To the RIT Center for Multidisciplinary Studies, who's support and guidance has provided me with the opportunity to make my life's work, and my academic experience one and the same.

Obligatory Shout-out to my Boss (and also Capstone Mentor)

To Professor Stephen Jacobs for always treating me as a colleague, and for his whole-hearted support of my research and professional development.

Hacking for Humanity

Random Hacks RedessHat & Fedora

To the members of the Fedora Team opensource com and Red Hat who have had our lab's back since Day zero.

In particular, Tom Callaway, Luke Macken, Ralph Bean, Ruth Suehle, Leslie Hawthorn, Dave Malcolm, Tohsio Kuratomi, and Mo Duffy.

Random Hacks of Ouress - Gov Friends

Jim Bell, Ken Zalewski, Dean Hill, Graylin Kim, Dan Pozzi, and the NYSenate-gov development team (both past and present)

The office of ITS-OFT and the volunteers who organize CapitolCampNY, and work with many agencies and branches to bring the Open Source Way to the Great State of New York.

Special thanks to Ginger Gericitano for going above and beyond her duty to be involved with RHoK Rochester.

Random Hacks of Kindne The FOSSBox

To the FOSSBox and its hackers.

Nathaniel Case, Justin Lewis, Ryan
Brown, Sam Lucidi, Ross Dellinger,
Chris Lockfort, Andres Ruiz, Matt
Soucy, Luis Rosario, Duy Nguyen, Jenn
Kotler, David Gay, Greg Jurman, Tim
Duffy, David Silverman, Kevin Hockey,
JT Mengel, Fran Rogers, and

Anyone else in the commit logs at http://github.com/FOSSRIT

Hacking for Humanity

Random Hacks of Kin The RHoKStars

Thea Aldritch, and the other members of the Random Hacks of Kindness organizing team.

The Rhok Global Sponsors.

Sean Herron, for being a speaker, and for getting the NASA Space Apps Challenge on my radar. We look forward to many more events like this at RIT.

Rob Bishop and the Raspberry Pi Foundation, for supporting Open Hardware on a global scale, and for bringing that presence to our local event.

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