



17935: Breakfast & Learn: Is there really a mainframe skills issue?

Andy Bates – CICS TS Product Manager

Insert Custom Session QR if Desired





And Featuring...



- Will Yates
- CICS TS Test Architect





And Featuring...



- Ian Burnett
- CICS Performance
 Team Leader





And Featuring...

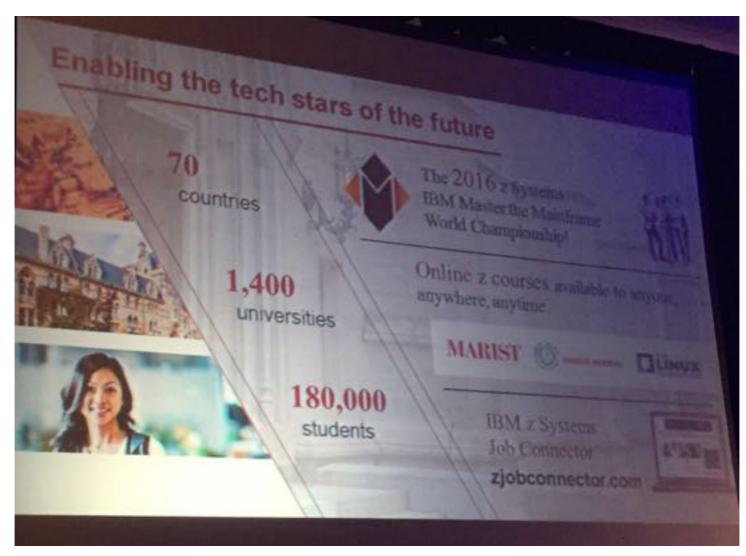
- Dr. Chris Poole
- CICS TS Software Engineer





What Does IBM think?







What Does IBM think?



Mainframe Modernization and Skills: The Myth and the Reality

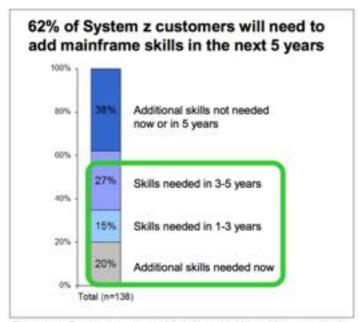


Figure 2 By the numbers: Mainframe skills will be needed

IBM

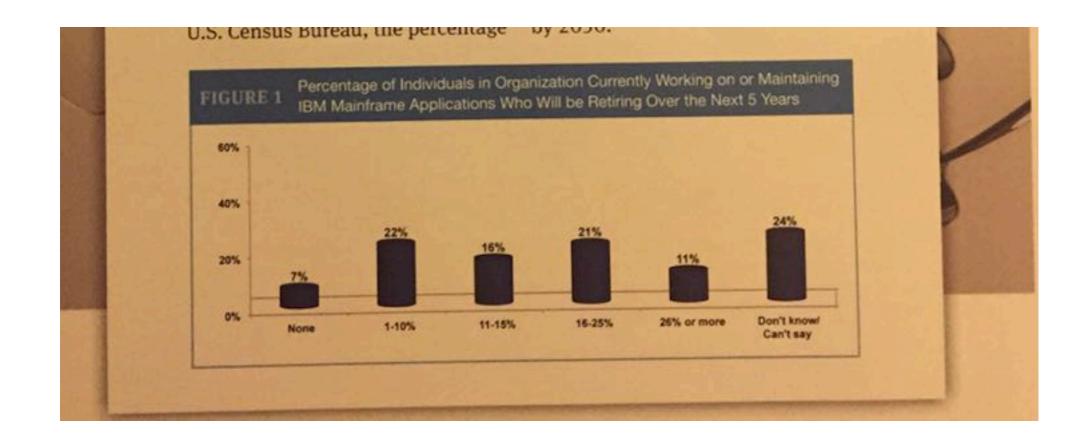
Is the mainframe a modern platform?

In April 2014, IBM® celebrated the 50th anniversary of the first mainframe computer, the System/360 (see Figure 1). Growth over that time has been such that today, much of the world's



What Does SHARE think?







What do the Vendors say?





MAINFRAME SKILLS SHORTAGE? NO PROBLEM

By Jonathan Adams, Vice President of Data and Performance Management, Mainframe Service Management, BMC Software

Based on BMC Software's annual survey of our mainframe customers, 81 percent of those surveyed in 2011 said they were somewhat or very concerned about staffing, up from 73 percent in 2008. A shortage of mainframe training, combined with retirement and attrition, has made filling mainframe support positions a challenge. Meanwhile, global business growth and dramatic increases in transaction volumes are leading companies to rely more on the mainframe than previously projected. Fortunately, mainframe management technologies, combined with other approaches, can help IT organizations meet this challenge.



What do the Vendors say?





Two-Thirds of CIOs Believe Looming Mainframe Skills Shortage Will Hurt Their Business

Global Survey Shows Limited Progress is Being Made on Preparing for Skills Shortage Risks

About the Compuware Mainframe Solutions

Compuware's Mainframe solutions help the world's leading organizations maximize development deliver better service. The Solutions are available within the Compuware Workbench, an of features an intuitive and easy-to-use graphical user interface. The Workbench makes companyed to perform for both experienced mainframers as well as those new to the mainframers as well as those new to the mainframers.



What do the Vendors say?



2014 Predictions: CA Technologies sees skills issue driving problems

We cover the predictions from major service and technology vendors as they come in

Date: 9 Dec 2013





What does Google say?





Business Issues, Applications, Cloud, IT Infrastructure

CIOs frustrated by mainframe app conversion expense

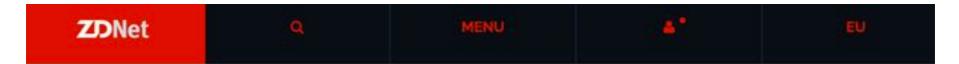
IT mainframe skills shortage getting worse.

Blog-post by John Dodge, Wed, 03/12/2014 - 12:15



What does Google say?





Shortage of mainframe skills looms but companies remain in denial

Like the rabbit caught the a car's headlights the IT industry does not know which way to jump to sort skills shortage.



By Colin Barker | February 18, 2014 -- 10:49 GMT (10:49 GMT) | Topic: Big Data



What does Google say?



CIOs scared mainframe skills shortage will hurt their business

Global survey shows limited progress is being made on preparing for skills shortage risks



Posted by Ben Rossi on 18 February 2014



So where are all the IT skills? Doing Java??







Then they must be doing Mobile, right??





Software skills shortage drives a boom for IT contractors

siliconrepublic

by John Kennedy





PROFITOLIS PROPLE

Mouna Kenzaoui, founder and CEO of Martinsen Mayer

A shortage of people with skills in Java, Android and iOS development willing to work on a permanent basis is contributing to a boom in IT contracting in Ireland, a prominent IT recruiter revealed.



Maybe Cloud??



Tackling the Cloud Skills Shortage



By Himanshu Sharma | Jan 16, 2015



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Windows then. It must be Windows.







DATA CENTRE

SOFTWARE

NETWORKS

SECURITY

INFRASTRUCTURE

BUSINESS

HARDWARE

SCIE

Migration skills shortage looms as Server 2003 DEATH DATE approaches

179 days to escape Microsoft's day of doom

19 Jan 2015 at 11:15, Paul Kunert









19

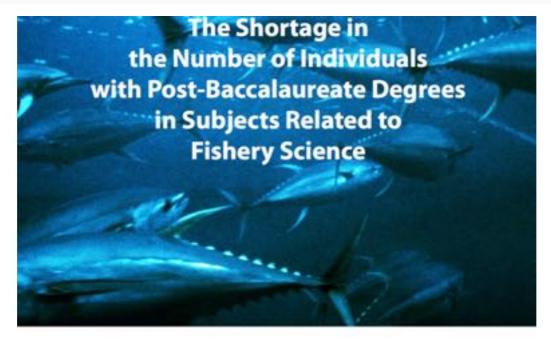
Something smells fishy here...



Skills shortage threatens Territory fishing industry

Updated 1 Jul 2014, 12:05pm

The development of the Northern Territory's fishing industry is being held back by a labour and skills shortage.





U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service

U.S. DEPARTMENT OF EDUCATION

September 2008





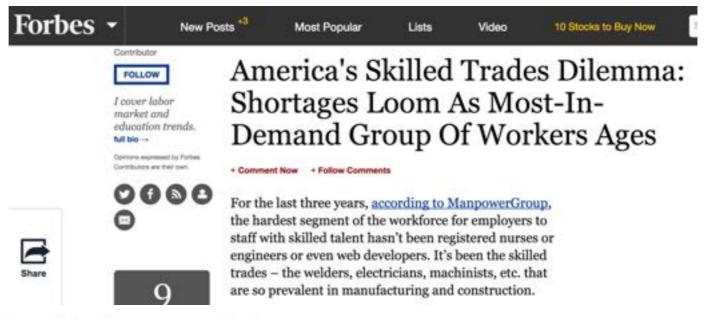
OK, A light bulb is beginning to come on....



See more news releases in Utilities | Domestic Policy | Labor & Union

Massive Shortage of Electricians Predicted for U.S.

NECA, IBEW Act Today to Ensure Tomorrow's Skilled Electrical Workforce



New electrical classifications made to address skills shortage



Maybe people should retrain....



April 2015

What to do about England's desperate shortage of qualified teachers





This looks serious! This is a political Issue!



Google	"political skills shortage"						
	Web	News	Images	Videos	Shopping	More 🕶	Search tools
	About 939,000 results (0.59 seconds)						
	No results found for "political skills shortage".						



Some articles are sympathetic....



Harvard Business Review ECONOMY

Employers Aren't Just Whining – the "Skills Gap" Is Real

by James Bessen AUGUST 25, 2014

Every year, the Manpower Group, a human resources consultancy, conducts a worldwide "Talent Shortage Survey." Last year, 35% of 38,000 employers reported difficulty filling jobs

Consider, for example, graphic designers. Until recently, almost all graphic designers designed for print. Then came the Internet and demand grew for web designers. Then came smartphones and demand grew for mobile designers. Designers had to keep up with new technologies and new standards that are still changing rapidly. A few years ago they needed to know Flash; now they need to know HTML5 instead. New specialties emerged such as user-interaction specialists



Some articles are pragmatic...



Mainframe skills shortage: tackling a crisis

By Désiré Athow May 09, 2014 Computing 🖵

How to overcome the lack of mainframe skills and maintain strategic legacy systems?



Some are dismissive...





HOME



The New York Times

The Fake Skills Shortage

NOVEMBER 25, 2012 9:02 AM





programmers?

Some are deferring...





Home > IT Management > Skills and Training

FEATURE

Mainframe Skills Shortage Five Years Off

Skills shortage 5 years out; firms unprepared

By Julia King FOLLOW

Computerworld | Apr 22, 2002 1:00 AM PT

MORE LIKE THIS

Mainframe skills, pay at a premium

Hard times

More than 90% of 300 companies that have mainframe staffs said in a recent Meta Group Inc. survey that they have "zero strategy" for dealing with the diminishing pool of skilled mainframe workers. Stamford, Conn.-based Meta estimates that 55% of IT workers with mainframe experience are over 50 years old.



Wait... this article is from 2002!!





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FEATURE

Mainframe Skills Shortage Five Years Off

Skills shortage 5 years out; firms unprepared — MORE LIKE THIS —

By Julia King FOLLOW

Computerworld | Apr 22, 2002 1:00 AM PT

old.







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The IBM CICS Team's Story....







#1 – Hire Good Young People

And help them become great!







https://www.youtube.com/watch?v=pKNJ-KC3vvo

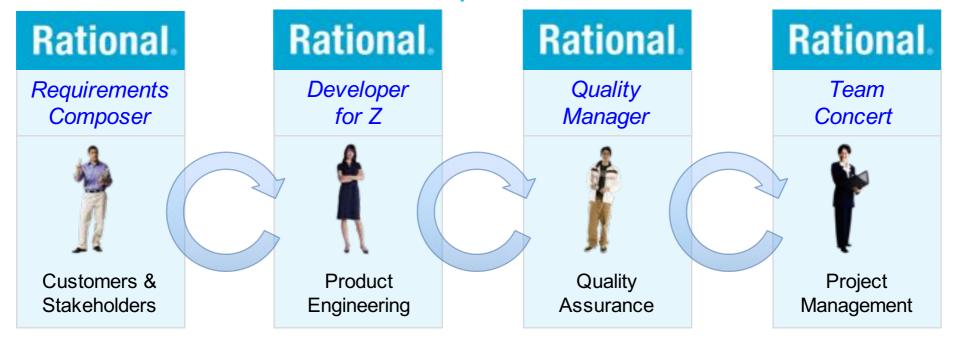
- Hire people with the expectation they will be great in a few years
 - Requires planning can't just use immediately on the toughest problems
 - But equally don't just use on easy, tedious problems give them a challenge
- Learn from them at least as much as you teach them!
 - New graduates look at the world in new ways use this!
 - Many CICS innovations have come from new hires saying "I wonder if..."



SHARE,

#2 – Give them modern tools and processes

With tools that help them innovate



- CICS TS Development make extensive use of modern tooling
 - We are experimenting with IBM Watson for PMR analysis
 - We also use a good amount of open source, where it makes sense









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#2 – Give them modern tools and processes

Processes that smooth the way and don't get in the way

Rational Team Concert

- Project planning, tracking, dashboards, RFE's
- Source code development via EPICS and stories

Stories

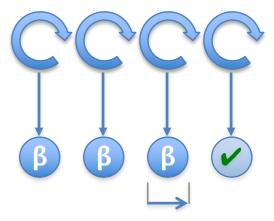
- Sized in story points by whole team
- Planned into 4 week iterations
- Tracked by story point burn-down charts
- Closed when defects fixed, tests automated and 100% successful

Testing

- Based on Agile Test Quadrants (Unit, FV, User, ST)
- Collaborative test planning
- Automated tests run daily on continuous delivery of code
- Customer scenario testing (CiP) product integration and multi release

Continuous delivery

Daily builds, weekly iterations (increments), monthly betas





#3 – Empower them to make a difference



Design Thinking practices fuel creativity and enthusiasm



Hills

- Focus on problems and outcomes for users, not feature lists
- Cross-functional teams define, deliver and promote solutions



Sponsor Users

- Provide real domain expertise
- Ensure design for real target users, not imagined needs



Playbacks

- Communicate hills, focusing on user value to be delivered
- Regular playbacks internally to wider team and externally to clients

Technical Foundation

 Separate team addresses RFEs, serviceability enhancements, infrastructure maintenance, etc



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There is NO mainframe skills issue

- But there is a mainframe skills PLANNING issue
- Some tips that have helped us in CICS TS:
 - #1 Hire good young people
 - #2 Give them modern tools and processes
 - #3 Empower them to make a difference



Genz Z Welcome to the Mainframe

From Desk to D-block to Denmark...









Genz Z Welcome to the Mainframe

Generation what?

Genz Welcome to the Mainframe

The Mission

Increase clients' retention of 0-5yr hires working on z Systems

Tactics

Enlighten

Understanding the global impact of mainframe tech

Excite

Awesome case studies & interactive ideation

Empower

Forging connections to create a next gen network

The Workshop

One day exploring the amazing possibilities of working on z Systems

Agenda

Morning

Introductions Why z Matters Real-life Mainframe Stories

Afternoon

Innovation Challenge Careers & Community Wrap up and Q&A

Evening

Networking social

The Community

A virtual Gen z network reinforced by meetups at key conferences

Foundations

Social Media

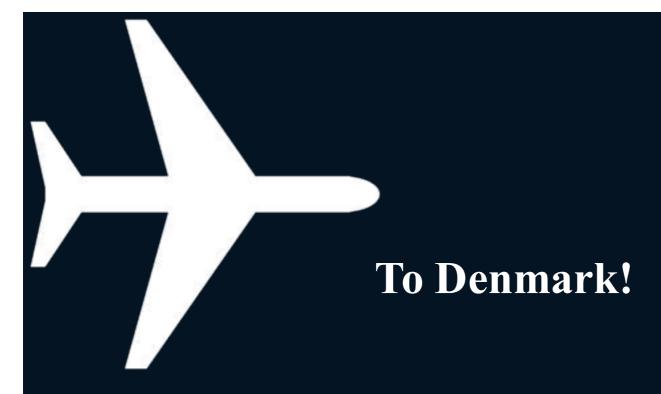
Facebook group In-geo LinkedIn groups

Events

Webcasts Conferences

Learning Support

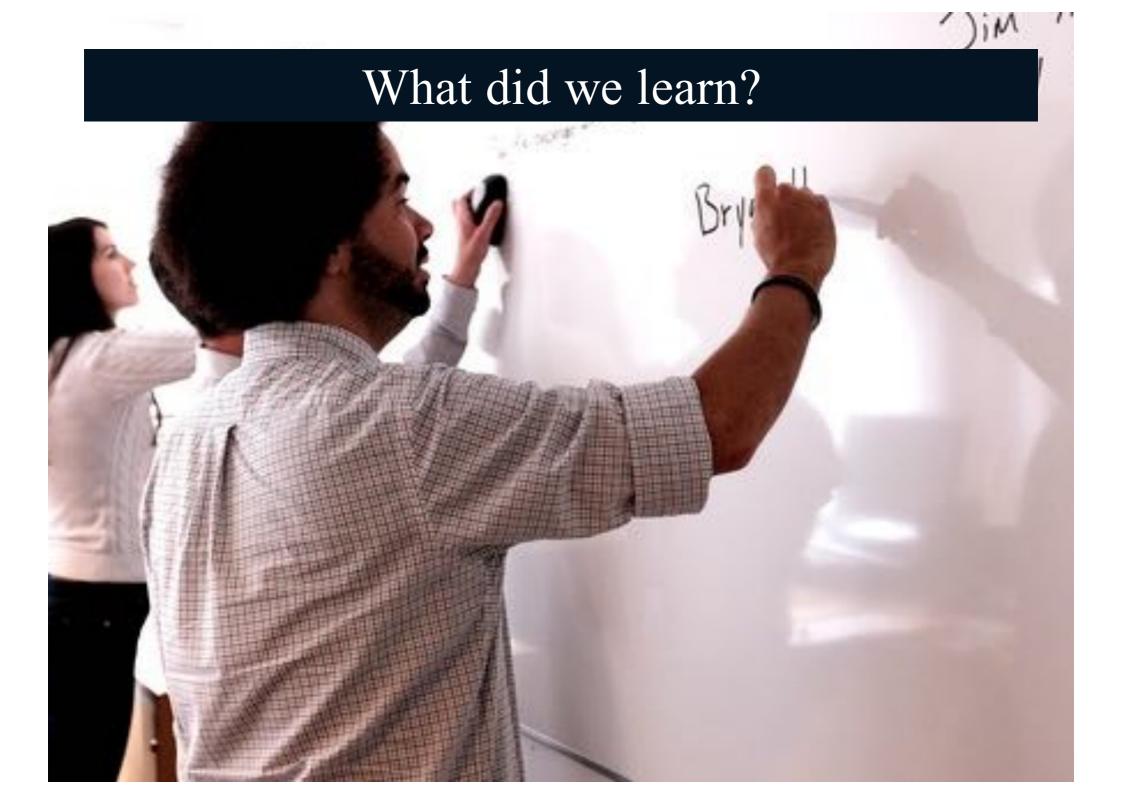
Resource lists and links Peer support network



1 day

1 deck

25 customers









"Mainframe has a lot of things to offer that I wasn't aware of."

"Mainframe is much broader than I thought."

"Yes! I believe in it now!"

"I am very new to the mainframe, and as expected, I learned a lot."

"That was really fun and I learned a lot."

"Great to get together with other mainframers from other companies."

"I will recommend this workshop to my colleagues."

Be part of it

Tell customers about Gen z

0-10yrs experience?

Join the Gen z team

Ask us for more info!

ibm.biz/ibmgenz



Indi Singh



Tony Papageorgiou



David Harris



Chris Poole



Anna Bridgen