



GeoGebra
Dynamic Mathematics for Everyone
International GeoGebra Institute

Zsolt Lavicza
University of Cambridge
<http://www.geogebra.org/IGI>

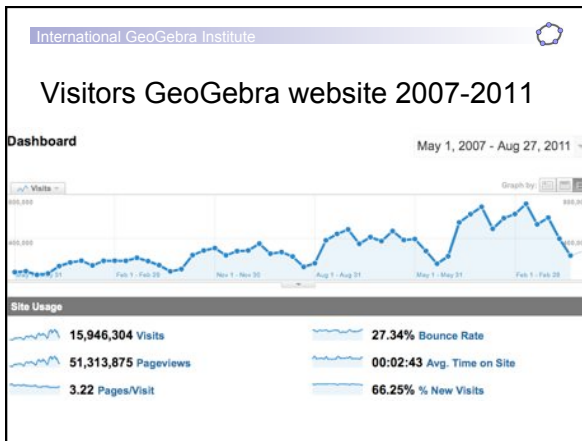
International GeoGebra Institute

GeoGebra Community

If you want to go fast,
go alone.

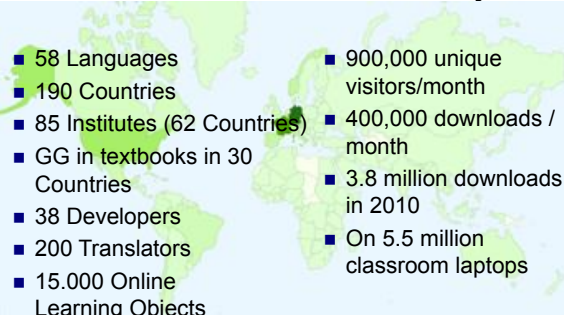
If you want to go far,
go together.

Warren Buffett



International GeoGebra Institute

World Wide User Community



- 58 Languages
- 190 Countries
- 85 Institutes (62 Countries)
- GG in textbooks in 30 Countries
- 38 Developers
- 200 Translators
- 15.000 Online Learning Objects
- 900,000 unique visitors/month
- 400,000 downloads / month
- 3.8 million downloads in 2010
- On 5.5 million classroom laptops

International GeoGebra Institute

Visitors from 190 countries

Detail Level	Country/Territory	Visits	Pages/Visit	Avg. Time on Site	% New Visits
1.	France	2,757,773	3.27	00:02:27	66.30%
2.	Germany	2,641,342	3.17	00:02:27	69.95%
3.	United States	1,686,015	3.03	00:02:48	62.83%
4.	Italy	963,086	3.56	00:02:49	66.83%
5.	Spain	624,854	3.33	00:02:45	66.18%
6.	Norway	579,134	2.79	00:02:55	63.01%
7.	Austria	552,587	3.19	00:02:30	63.96%
8.	Belgium	475,219	2.87	00:02:50	64.17%
9.	Denmark	463,984	2.63	00:02:52	67.96%
10.	Brazil	422,791	3.14	00:03:19	70.08%
11.	Mexico	396,552	3.06	00:03:20	71.29%
12.	United Kingdom	284,917	3.66	00:03:34	60.94%
13.	Switzerland	275,478	3.11	00:02:24	65.60%
14.	Greece	272,746	3.11	00:02:39	64.11%
15.	Portugal	257,894	3.77	00:02:51	66.29%
16.	Canada	235,569	2.92	00:02:31	66.89%
17.	Netherlands	182,876	2.86	00:02:25	65.15%

International GeoGebra Institute

GeoGebraWiki – Shared examples

GeoGebraWiki

Welcome to the International GeoGebraWiki!

GeoGebraWiki is a free pool of teaching materials for the dynamic mathematics software GeoGebra. Everyone can contribute and upload materials! All contents of this pool may be used free of charge.

English - French

Catalan, 中文 (Chinese), Czech, Danish, Dutch, English, UK, Finnish, German, Greek, עברית (Hebrew), Hungarian, Indonesian, Italian, 日本語 (Japanese), Maltese, Norwegian, Persian, Polish, Português, Romanian, Russian, Slovenian, Slovak, Spanish, Swedish, Tamil, Turkish, Українська (Ukrainian), Vietnamese

Workshops - Know-how - Tools - Publications
Popular Materials - America's Assistants - GeoGebra Act - New Articles - All Articles

- Help for GeoGebraWiki - Find out about this Wiki
- GeoGebra Upload Manager - to upload your materials
- Image Upload - to upload your images
- GeoGebra Homepage - everything about the software GeoGebra

Forum	Topics	Posts	Last post
English speaking users			
Using GeoGebra	1484	7580	Thu Dec 16, 2009 2:18 pm
Technical Questions	749	3462	Thu Dec 16, 2009 12:48 am
Installation, dynamic worksheets, GeoGebraWiki, save4pcp, etc.			
German speaking users			
Wissenswertes über GeoGebra	829	3236	Wed Dec 16, 2009 9:59 pm
Frage rund um die Bedeutung von GeoGebra als Einzelanwendung	370	1425	Tue Dec 14, 2009 3:40 pm
Technische Fragen			
Installation, dynamische Arbeitsblätter, GeoGebraWiki, save4pcp usw.			
French speaking users			
Forum pour les utilisateurs de GeoGebra qui parlent français	1047	13300	Thu Dec 16, 2009 3:53 pm
Messages relatifs aux versions beta 4.0	51	378	Sat Dec 12, 2009 8:46 am
International users			
Forum for international users	146	857	Wed Nov 18, 2009 8:22 pm

International GeoGebra Institute

International GeoGebra Institute

2007-2011

International GeoGebra Institute

Core Aims of IGI

- Teacher training and support
 - Offer workshops & support
- Material and software development
 - Share free materials
- Research
 - Encourage and coordinate collaborative research
- (Outreach)
 - Enable disadvantaged communities

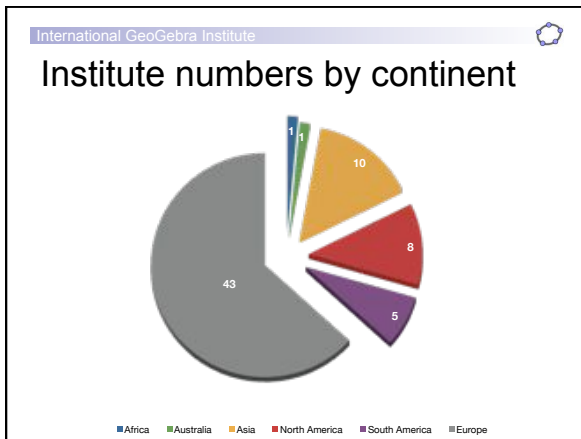
International GeoGebra Institute

85 Current GeoGebra Institutes

62 countries. More coming soon ...

<http://www.geogebra.org/community>

International GeoGebra Institute



- International GeoGebra Institute
- ### Difficulties of serving large communities
- GIs can reach mostly local teachers/communities
 - Members work in different institutions
 - Large geographical areas to cover
 - If many people involved that results too large staff
 - Maintain independence of work

- International GeoGebra Institute
- ### Towards a GeoGebra Institute network
- Rather than country-wide institutes, GI network serves better a country's needs
 - Establishing local institutes, but encourage a coordinating committee (locally decided)
 - Individual application followed by a network application



- International GeoGebra Institute
- ### Planned Institute Centres
- **Linz, Austria** – Software development
 - **Budapest, Hungary** – Community support
 - **Cambridge, UK** – STEM and Research
 - Possible other centres

International GeoGebra Institute

GeoGebra Events

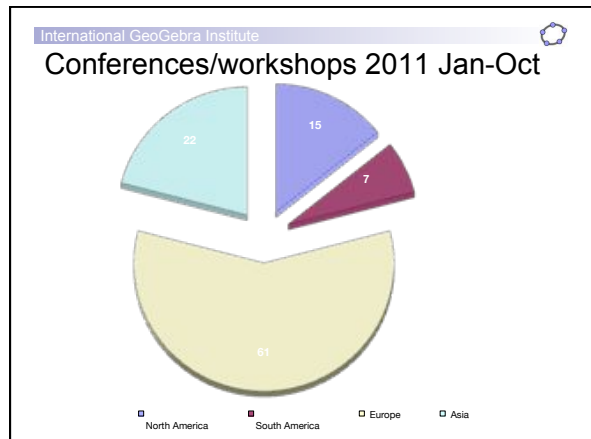
International GeoGebra Institute

GeoGebra Events



- Individual Workshops
- GeoGebra Conferences (1 in 2009; 12 in 2010; 25 in 2011)

www.geogebra.org/events



International GeoGebra Institute

Being Present at other conferences/events

- Present at mathematics/STEM education conferences
- Answer questions for teachers/colleagues
- Distribute GeoGebra materials

International GeoGebra Institute

GeoGebra Strategy, Sustainability, Media

International GeoGebra Institute

IGI Strategy and sustainability

- Support
 - Community
 - Software development
- Engage and encourage the community
- Sustainability
- Fundraising

International GeoGebra Institute

Facebook: <http://facebook.com/geogebra>





International GeoGebra Institute

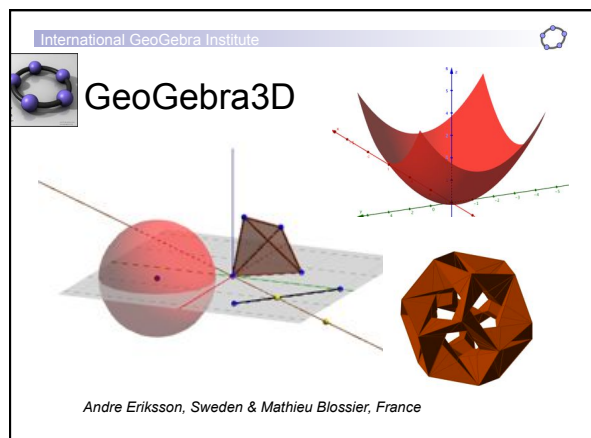
Community and project support

- Assist the community with
 - Events
 - Research training
 - GeoGebra materials
 - Activities
- Distribute responsibilities (Committees)
 - Research
 - Coordination
 - Support
 - ...

International GeoGebra Institute

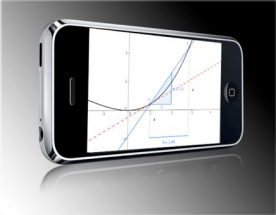
Partner school network

- Involve more teachers in the community
- Schools experimenting with the use of GeoGebra
- Encourage collaboration among schools and teachers
- Be able to offer more support
- Sponsors can donate to schools



International GeoGebra Institute

GeoGebraMobile

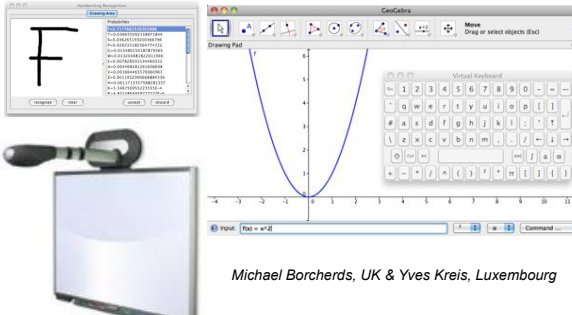


- GeoGebra Applets should work on Smartphones
- iPhone, iPad, Android

Gabor Ancsin & Zoltan Kovacs, Szeged, Hungary

International GeoGebra Institute

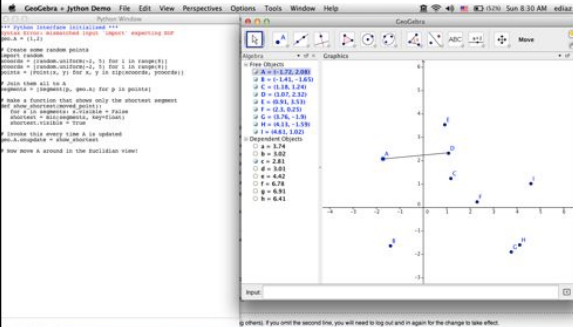
GeoGebraTouch



Michael Borcherds, UK & Yves Kreis, Luxembourg

International GeoGebra Institute

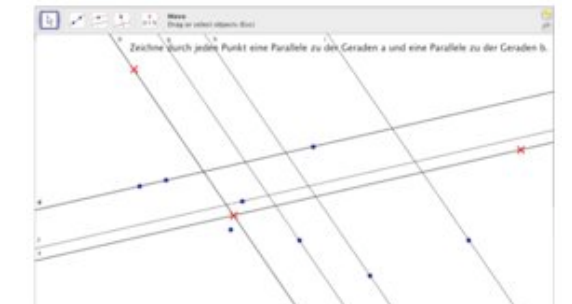
GeoGebra programming (Python)



International GeoGebra Institute

GeoGebraPrim


- GeoGebra for Primary schools



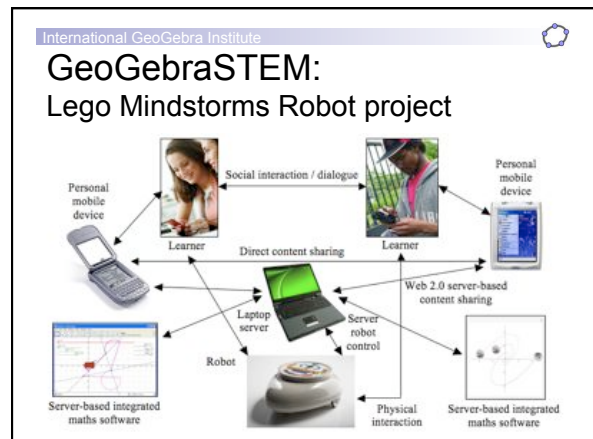
International GeoGebra Institute

GeoGebraSTEM: ExpEye, Phoenix

Computer Integrated Science Environments



Tata Institute for Fundamental Research, Mumbai, India



International GeoGebra Institute

GeoGebraSTEM:

Game consols, Wii, Kinect, Predator, Leonar3Do

International GeoGebra Institute

GeoGebra Additional activities

International GeoGebra Institute

One Laptop per Child Project



Tata Institute for Fundamental Research, Mumbai, India

International GeoGebra Institute

Argentina 3million netbooks


International GeoGebra Institute

GeoGebra and assessment systems


- **WeBWorK, US**  **WeBWorK**
- STACK, UK**
- TAO, Luxembourg** 


International GeoGebra Institute

Textbooks


International GeoGebra Institute 

On-line schools websites




International GeoGebra Institute 

GeoGebra Research

International GeoGebra Institute 


Research

- Important part in the aims IGI
- Evidence for improvement
 - Software development
 - Training
 - Teaching and learning
 - User community
- Theoretical basis

International GeoGebra Institute 


Research priorities

- **Several current research projects with GeoGebra**
 - Teacher research (PD, teaching practices)
 - Research on existing materials (WIKI, workshops)
 - Software development/improvement
 - Community research (WIKI, forum, local groups)
 - Student research (understanding, learning, reasoning, proof)
 - Open-source research (availability, accessibility)
 - Other? Research Committee

International GeoGebra Institute 

Collaboration and activities

- Share experiences/results with colleagues and at meetings/conferences
- Engage research students
 - Bachelor, masters, PhD thesis
 - Research assistants
 - Fellowships
- Write up and publish work/results (practitioner/ research journals)
- Reach out to developing countries and disadvantaged communities

International GeoGebra Institute 

Engage with the GeoGebraCommunity

International GeoGebra Institute 

Share your ideas and recommendations

- Software development
- Material development
- Associated projects
- Contacts (people, media, funding sources...)
- Establish a GeoGebra Institute
- Organise GeoGebra events
- ...

GeoGebra 
THANK YOU

Contacts:

Research: zsolt@geogebra.org

Institutes: community@geogebra.org

Conferences/workshops: events@geogebra.org

General enquiries: support@geogebra.org

Translations: translations@geogebra.org

Media: media@geogebra.org