



# Estrategia S21+

*Uso de Realidad Virtual y Realidad Aumentada  
para el desarrollo de Habilidades Socioemocionales*



# Marco de Referencia



HOME > OUR WORK > FRAMEWORK FOR 21ST CENTURY LEARNING

## FRAMEWORK FOR 21ST CENTURY LEARNING

P21's Framework for 21st Century Learning was developed with input from teachers, education experts, and business leaders to define and illustrate the skills and knowledge students need to succeed in work, life and citizenship, as well as the support systems necessary for 21st century learning outcomes. It has been used by thousands of educators and hundreds of schools in the U.S. and abroad to put 21st century skills at the center of learning.

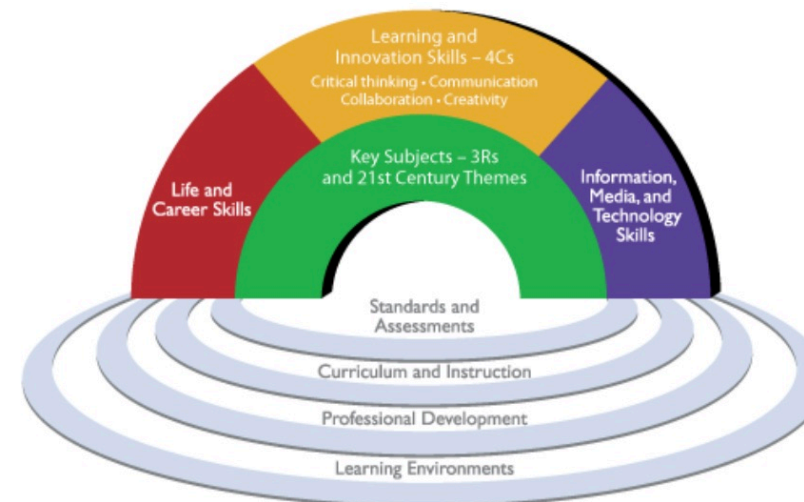
The P21 Framework represents both 21st century **student outcomes** (as represented by the arches of the rainbow) and **support systems** (as represented by the pools at the bottom).

**Our Work**

- Framework for 21st Century Learning
  - 21st Century Skills Early Learning
- Framework
  - Resources
    - For Educators
    - For Policymakers
    - For Community
    - For Project Managers
  - Citizenship
    - A Parents' Guide
    - 21st Century Learning and Citizenship In Practice
    - Tips and Strategies for Families
    - Citizenship In and Beyond the Classroom
    - Key Words and Glossary
  - Global Education
  - 4Cs Research Series
  - Creativity
  - Communication

## P21 Framework for 21st Century Learning

21st Century Student Outcomes and Support Systems



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www.P21.org/Framework



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The screenshot shows the ATC21S website homepage. The header features the ATC21S logo with the text 'ASSESSMENT & TEACHING OF 21<sup>ST</sup> CENTURY SKILLS' and 'HEADQUARTERED AT THE UNIVERSITY OF MELBOURNE'. It also mentions 'SPONSORED BY CISCO + INTEL + MICROSOFT'. A navigation menu includes 'HOME', 'ABOUT', 'INNOVATIONS', 'USEFUL LINKS', and 'CONTACT'. A search bar is present. The main content area has a section titled 'About the Project' with a paragraph of text and a video player titled 'ATC21S Overview of Collaborative Problem Solvi...'. A 'Read more...' button is located below the text.

## 21st Century Skills

ATC21S defined ten 21st-century skills into four broad categories. These have been grouped under the acronym KSAVE: knowledge, skills, attitudes, values and ethics.

### WAYS OF THINKING

- Creativity and innovation
- Critical thinking, problem-solving, decision-making
- Learning to learn/metacognition (knowledge about cognitive processes)

### TOOLS FOR WORKING

- Information literacy
- Information and communication technology (ICT) literacy

### WAYS OF WORKING

- Communication
- Collaboration (teamwork)

### WAYS OF LIVING IN THE WORLD

- Citizenship – local and global
- Life and career
- Personal and social responsibility – including cultural awareness and competence

For further detail please see: Binkley, M., Erstad, O., Hermna, J., Raizen, S., Ripley, M., Miller-Ricci, M., & Rumble, M. (2012). [Defining Twenty-First Century Skills](#). In Griffin, P., Care, E., & McGaw, B. Assessment and Teaching of 21st Century Skills, Dordrecht, Springer.



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Global Landscape People + Technology Health + Self Search IFTF

## FUTURE NOW THE IFTF BLOG

Get Fit for Tomorrow's Work + Learn Economy

FEB 16, 2018 By Mark Frauenfelder

### IFTF Launches Future Skills Initiative

The work + learn economy is transforming before our eyes. Machines are doing jobs no one expected they'd be capable of performing. Meanwhile, full-time employment gains are shrinking, and more people—either by choice or circumstance—are working on a temporary, part-time basis. These shifts are only the beginning of even more massive disruptions ahead.

How can workers and learners succeed in such an uncertain, rapidly evolving world? To answer that, IFTF has launched the **Future Skills Initiative**—a series of events throughout the year designed to help workers and learners of all ages develop skills to navigate a vastly different labor economy.

Our first event, held at the end of February, brings together innovators, influencers, and thought leaders in business, education, and the investment community to launch and discuss a work+learn framework that identifies peak performance zones and associated super skills that workers and learners will need to succeed in the workforce of the future. We'll also unveil a first-of-its-kind virtual reality training circuit designed to point learners and workers to the skills they'll need in the future. The circuit includes stops such as the "Befriending the Machines" station, where learners will find

**FUTURE Skills**

YOUR FUTURE

GET FIT FOR WHAT'S NEXT

## THE #FUTUREFIT SUPER SKILLS

**MAKE YOURSELF KNOWN**

**BEFRIEND THE MACHINES**

**BUILD YOUR TRIBE**

**MAKE SENSE**

**KEEP IT GOING**

**YOUR DATA KNOWS YOU**  
Brands aren't just for celebrities anymore. In a world where continuous monitoring and big data analytics drive industries like advertising, retail, design, gaming, and education, a core skill for the future is knowing how to protect, trade, donate, and reap your own value from data about you. This is how you'll manage your reputation and build your personal brand—and learning how to curate your brand in multiple media and many cultures is the first key to success.

**AI IS EVERYWHERE**  
The workforce of the future isn't just humans. Machine intelligence—whether it's embedded in robots or traversing the web as smart bots—will change the way things get done. Regardless of whether you work in a warehouse or the White House, you'll need to know how to learn with these bots and robots. You'll need to know when to trust them and how to test them. You'll assemble teams of them, teaching them and deciding which of them are best for which tasks. In short, with all these AIs reporting to you, you'll need to be a manager and a leader, wherever you're working and whatever you're doing.

**YOUR CREDITS ARE YOUR ASSETS**  
Your life is your resume. Learning is moving out of classrooms and courses and into the streets of everyday life, and you need to get credit for everything you accomplish throughout your day. This credit-for-everything approach will set you up for the next task, job, or adventure. Spotting the patterns in your credits will help you level up, recognizing what you're good at, what you care about, and how to put those talents and passions to work for the future you want.

**YOUR CULTURAL SKILLS ARE YOUR SUPERPOWERS**  
Dexterity is about being nimble, agile and well skilled for the task at hand. (Quite literally, dexterity means hand skills.) In today's worldwide networks, you're going to be working, thinking, creating, and playing outside your native culture every day, and multicultural dexterity will give you the ability to quickly and appropriately shift your mindset, grasp local memes, and employ local rules of engagement to your benefit—all in multiple media.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
The future is digital. As this digital world grows by leaps and bounds, so do the skills you need to stay up-to-date in the marketplace of work and well-being. Just like the apps on your smart phone, these skills need frequent upgrades. You need to move with fluency from medium to medium, from platform to platform, from code to code. You need a strategy for keeping up with the digital standards and practices of the future path you're pursuing. Everything else depends on this.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
The future is an augmented reality with virtual worlds everywhere you look. As more and more work is performed in these worlds or with the digital overlays of augmented reality, you need to know how to navigate these layers of reality, how to make things happen in them and with them, how to use them to communicate and collaborate, and perhaps even to build them—all while keeping your feet on the ground in the physical world.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
Impenmanence is the shape of the future. From factories and stores to supply chains and social connections, the world you'll work in will be constantly changing. And perhaps the most important skill you'll need for the what's-next future is the ability to pop up communities when and where they're needed. Whether it's creating a globally connected innovation zone in the middle of Detroit or building a shelter for climate refugees in the Caribbean, you need to be ready to find community resources, work around local regulations, and tap grassroots energy and imagination to build a never-before community.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
All the world is a design project, and everyone is a designer. You're going to design products, services, and experiences with people everywhere. As work becomes more global and more volatile, you'll need to prove these skills to design for impenmanence, for immersive media, for AI-assisted manufacturing, and AI-driven disease diagnosis. You'll draw often on open data from around the globe to solve small pieces of big puzzles, and you'll need to master peer-to-peer prototyping for everything from insurance policies to health care to running the country.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
Digital currencies are the strange attractors of the next decade. These are the peer-to-peer coin exchanges that can make you a billionaire overnight or crash your holdings just as quickly. More important, they are the new tools for connecting physical things to the internet, managing shared resources like neighborhood solar grids, and tracking products from start to finish. Whether you're a blockchain coder, a Bitcoin miner, or just someone who uses cryptocurrency to tip your favorite online musician, digital currency skills will help you bring unexpected value to your global tribe.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
You've heard of big data, but big stories are what's next! You'll need to master tools that reveal the hidden chronicles in large volumes of data. You want to understand how human brains are wired for stories and what rouses people to action. You'll apply this knowledge to everything from selling a product to healing a broken heart—or a broken community. You'll do this in every medium, from text and photos to video and 3D immersive virtual realities.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
There was a time when futures thinking happened in ivory towers, think tanks, and secret military planning facilities. Today, futures thinking is for everyone, and you need to build your capacity to think long term. You need to understand the difference between possibilities and probabilities. You need to build your own craft of scenario planning, turning scenarios of the future into things you can experience today. You need to build foresight that leads to insight that jumpsstarts action today. Foresight, insight, action. That's futures thinking.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
Complexity can look like chaos, but humans are masters at connecting the dots to create clear pathways in a forest of confusion. This is the core skill you need to make any change in your life—or in the world around you. You'll need to connect your dots in unexpected ways. Everything is a potential medium for change: food, medicine, fashion, construction, farming. Your task is to find the medium where you can clearly see the connections to the larger changes you want to make in the many worlds you occupy.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
The safety net is frayed. As you carry a greater burden of risk for everything from managing your health to building your wealth, you need to become an insurance broker for yourself and for others. You need new tools and new skills for converting risks into assets, often by sharing both risks and resources for everything from knowledge and data to health, energy, and climate. You need the know-how to build vast new safety nets across these many extreme environments.

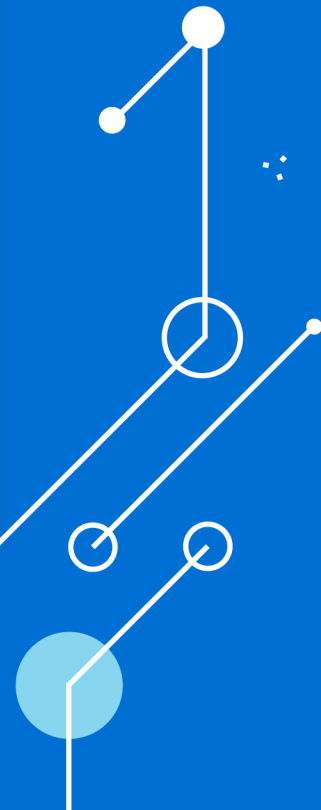
**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
The future of ethics and equity hangs in the balance. In a world of diverse values and cultures, it's easy to believe that a shared set of ethics is a thing of the past. But you can participate in an ethical, equitable future that benefits everyone if you learn to think beyond T-shirt slogans and Twitter arguments. You will need to discover what both traditional philosophy and cutting-edge neuroscience have to say about the unique human capacity for ethical thinking and cooperative behavior. Then you'll need to turn that knowledge into skillful, ethical encounters with both humans and smart machines.

**YOUR DESIGN SKILLS ARE YOUR SUPERPOWERS**  
Extreme environments demand extreme caring. To meet the demands of a world under pressure from aging populations, from climate-ravaged communities, and from a health care industry that must serve more people with fewer resources, everyone will need a higher caring IQ. New insights into the nature of empathy, of social and emotional intelligence will lead to new tools and strategies for developing these important human capacities. You will use this new kind of intelligence as a foundation for new ways of caring for yourself, your family, your network, around the world, and the planet itself. Ultimately, this is the purpose of all our labors: to take care of one another.



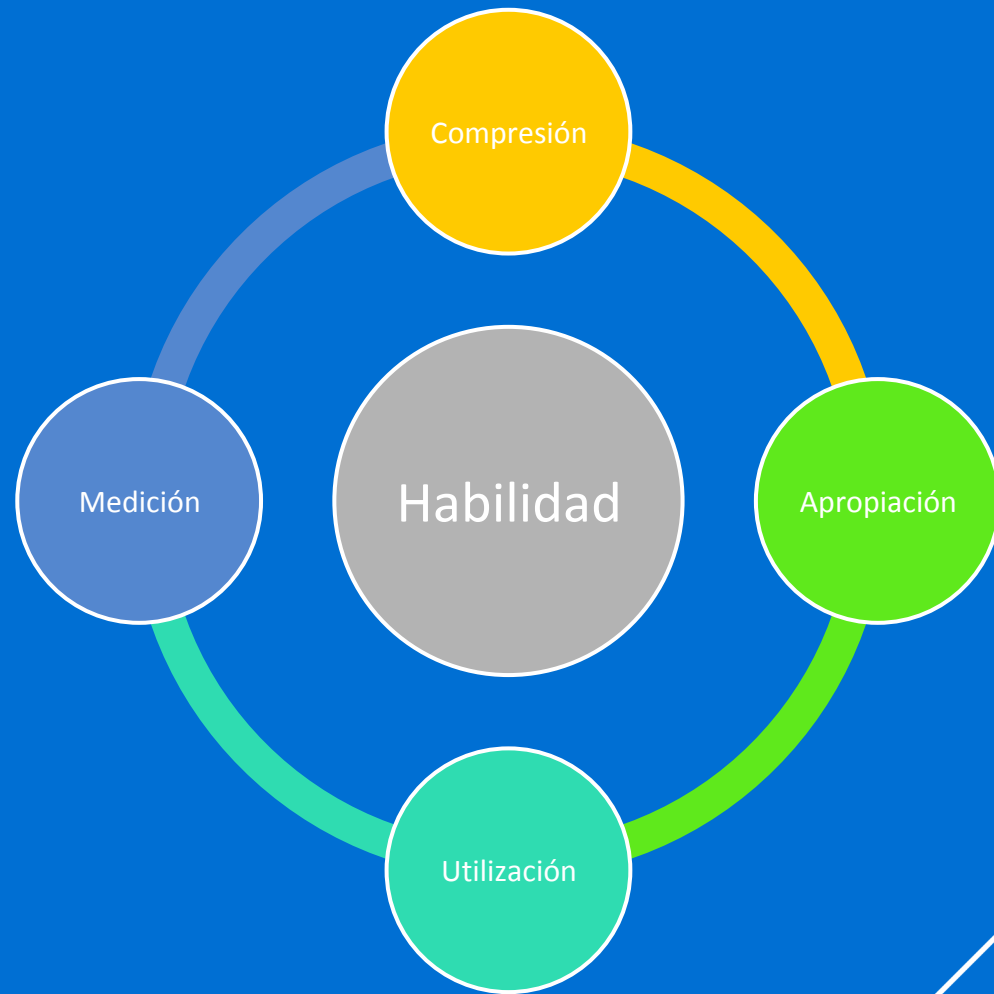


# Realidad Aumentada y Realidad Virtual



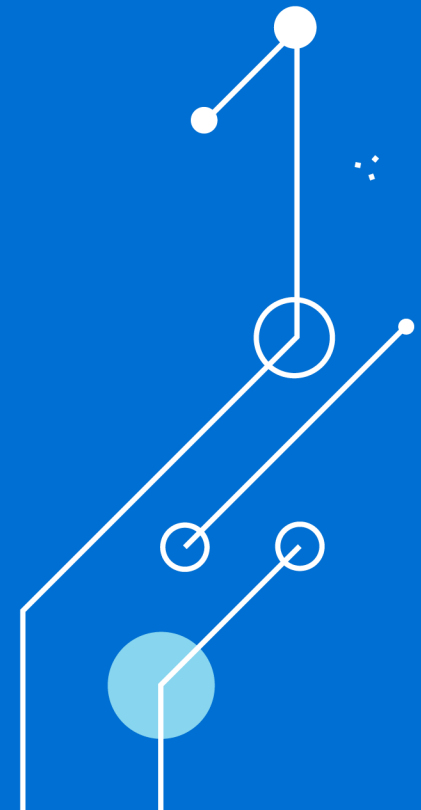
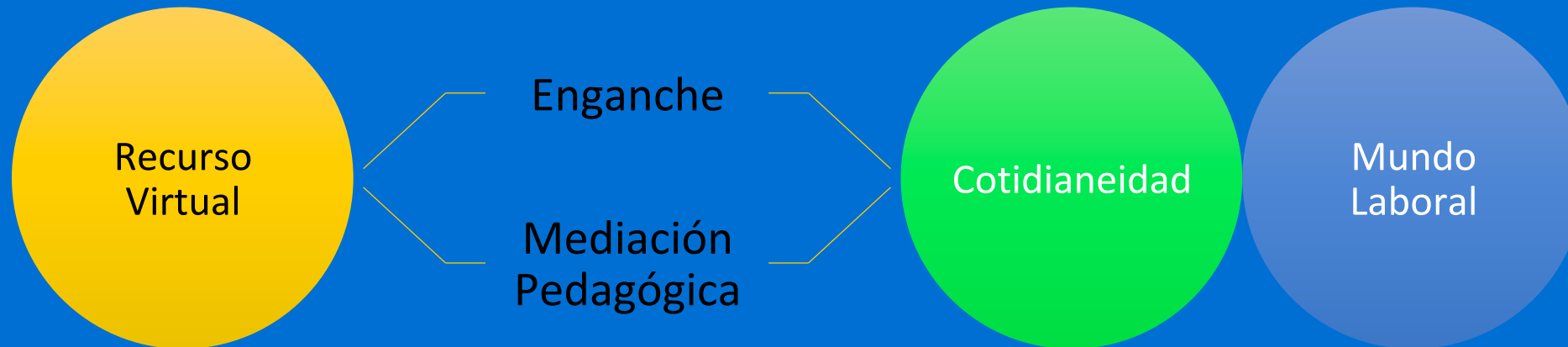
# S21+

Estrategia de Fundación Monge para el desarrollo y fortalecimiento de las *Competencias del Siglo XXI* en la población beneficiaria del Programa Soy Cambio.



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# Contenido de Realidad Virtual

*Los Nuevos Héroes de Geekonia*

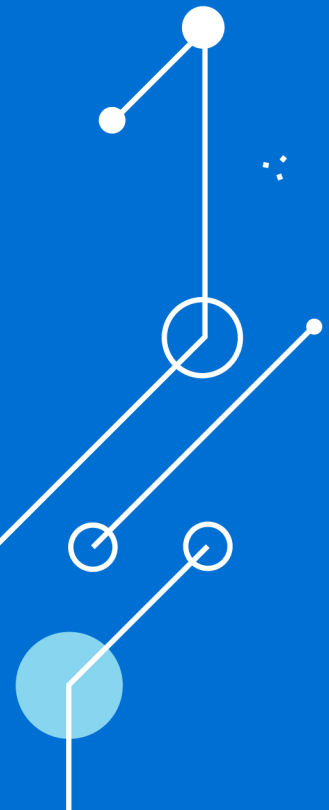


## Ruta Crítica del Proceso

- Definición de las Habilidades / Competencias
- Creación Storyboards
- Desarrollo de los Contenidos
- Implementación
- Evaluación



Foto del Evento Think – A – Thon, Junio 2017.



# Storyboards



1. **Think – A – Thon:** Creación de Ideas a cargo de estudiantes, profesores e informáticos, para ser desarrolladas posteriormente con una lógica narrativa.
2. **Validación de Ideas:** Con apoyo del Ministerio de Educación Pública y el Sector Privado se validaron las mejores ideas para convertirlas en contenidos de VR.
3. **Propuesta Narrativa:** Se desarrolla una propuesta creativa en la cual se abordan las habilidades contempladas en las Competencias del Siglo XXI, a partir de la idea creada en el Think – A-Thon.



Foto del Evento Think – A – Thon, Junio 2017.

# Propuesta Narrativa Storyboards



- Selección de una sola historia para convertirla en una Saga.
  - La Saga contiene 6 capítulos que responden a una habilidad distinta pero enlazadas bajo una misma historia.
  - Se apuesta por una experiencia que combine una alta calidad gráfica con complejo nivel de interacción.
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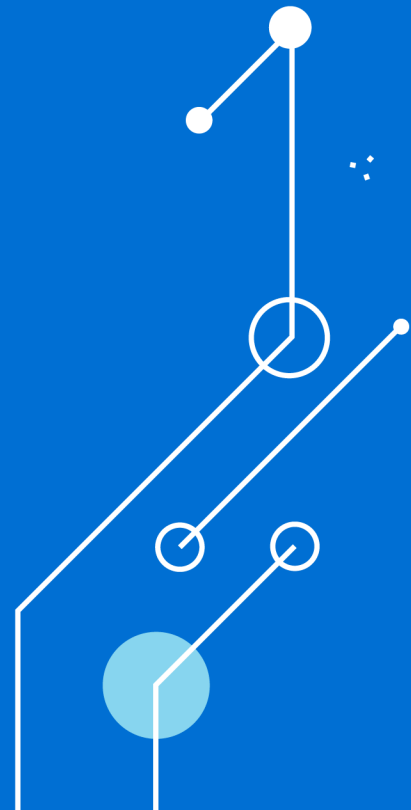
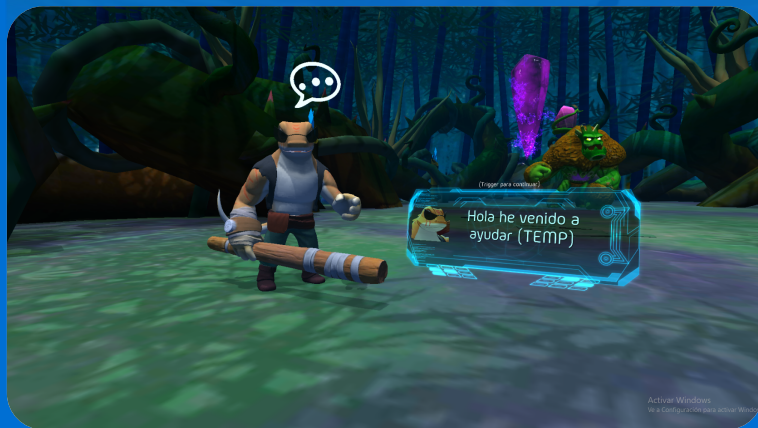
# Los Nuevos Héroe de Geekonia

En un mundo alterno se levanta una civilización escondida entre miles de bambúes llamada Geekonia. La civilización está poblada por geekos pacíficos devotos de la ciencia, por lo que la tecnología ha facilitado su vida diaria, alejándose de la magia que una vez los hizo avanzar como civilización. En la manufactura de sus productos utilizan el bambú como materia prima y la energía solar, sin fuentes contaminantes y con alta eficiencia.

En Geekonia encontramos a Tray y Prima, dos jóvenes geeko con el deber de seguir los pasos de su sabia Abuela Chang, heroína y defensora, que debido a su edad se encuentra retirada en estado de reflexión absoluta para mantener el conocimiento que en Geekonia aún se tiene de la magia antigua de los geekos, conocida como sento, una energía que viene de la propia tierra, árboles y ríos, de la naturaleza. Tray y Prima deben tomar su lugar como héroes. Orientados por la sabiduría de su Abuela y ayudados por sus amigos geekos deben aprender los secretos del sento para conservar la magia y defender Geekonia.



# ∴ Los Nuevos Héroes de Geekonia





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