



World's Coolest STEM Education

Modular magic in the classroom



Engineering the Skills of Tomorrow

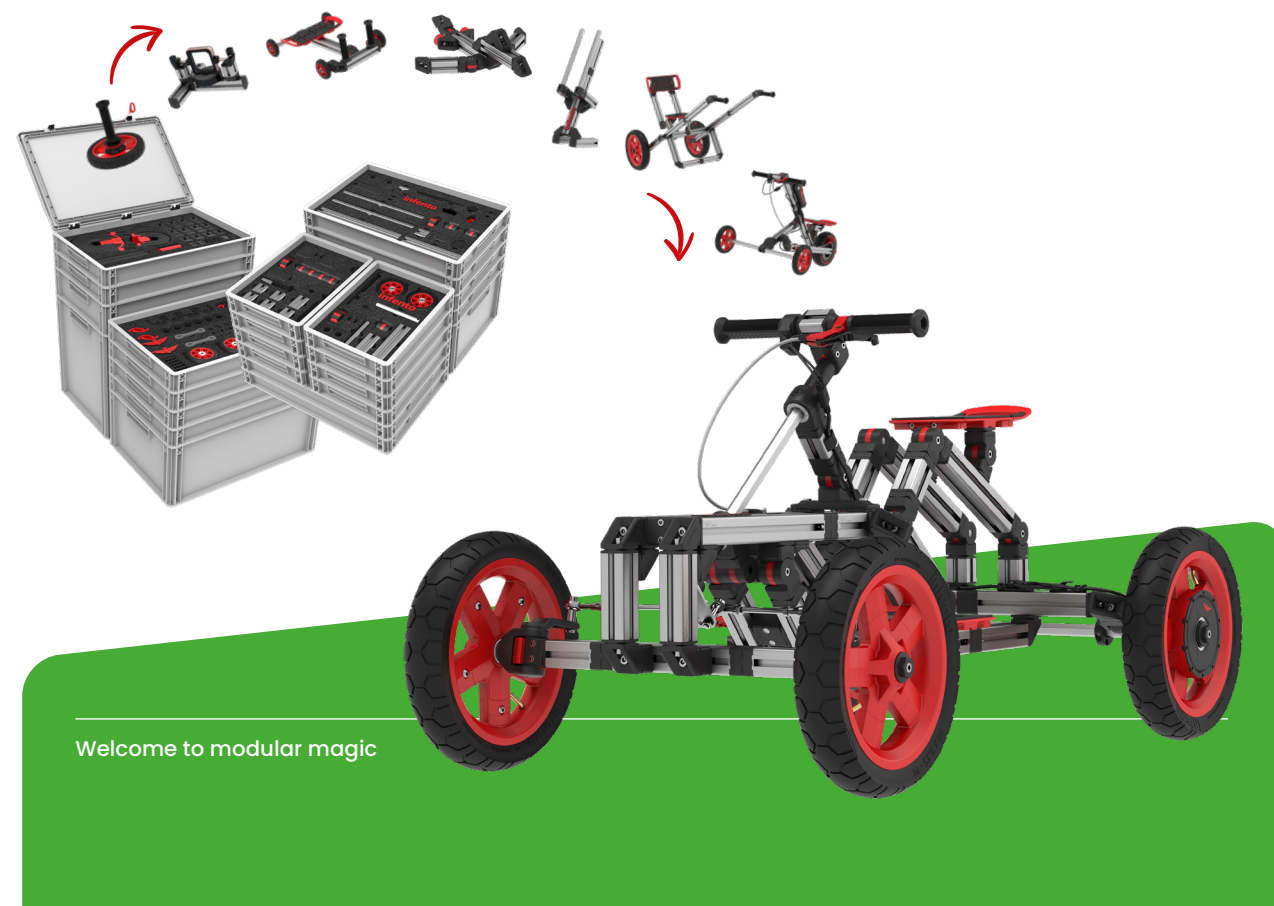
The world and technology are advancing faster than ever. Electric mobility, autonomous driving and artificial intelligence are rapidly becoming part of everyday life. Behind all these innovations lies one core discipline: engineering. For today's students, understanding how technology is designed, built and improved is no longer optional, it is essential.

Yet in many classrooms, STEM education remains abstract. Students learn concepts, but often lack opportunities to apply engineering thinking in a meaningful way. To prepare students for a future shaped by technology, education must **develop problem-solving skills, critical thinking, creativity and collaboration** in a fun and engaging way.

Infento bridges that gap. By bringing life-size engineering into the classroom, students experience how ideas turn into real constructions. They learn to think like engineers, work with real systems and materials, and build skills that are directly relevant in a fast-changing, technology-driven world.

With Infento, students don't just prepare for the future, they start building it today!

Team Infento Education



How Infento Brings Engineering to Life

Infento has developed modular parts that allow students to create life-size vehicles. You can build a skateboard, tricycle, scooter, motorbike, drift machine or electric kart. Anything is possible with Infento!

While students build together, they will learn new skills that they can benefit from throughout their entire life. Students will learn about engineering and mechanics, realizing a design plan, assembling, tools, braking systems, electric mobility and much more.

As soon as they finish their (electric) Ride or custom design, it's time to drive it! Steer like Max Verstappen, let the young pit crew change tires and continue the race. Who's clocking the fastest lap? Infento connects to the child's world, bringing engineering to life.

1

CHOOSE YOUR KIT

Choose a Kit that fits your curriculum, students' age and skill level, and your teaching style, whether project-based or classroom-based.



2

BUILD TOGETHER AND LEARN

Let students select a pre-designed model, or unleash their creativity to design their own. Together, they'll construct impressive STEM creations.



3

TEST, PLAY AND IMPROVE

After construction, it's time to test your creations! Race them, explore new ideas, adjust the designs, and enhance them with our modular components.



4

NEW CYCLE, NEW CHALLENGE

When the project is done, simply take it apart and begin again with a new group or a new challenge. Tens of creative projects, endless possibilities, year after year.











“ Isn't this great? I built this electric Ride together with my classmates! ”



Do you want to be the most innovative school in your region?

With Infento, you can build anything your imagination can think of!

Six reasons to choose Infento!

	Consistently rated as students' favorite school project		Real engineering through life-size builds
	Suitable for any teacher: no technical background required		Hands-on STEM learning for all levels and students
	Durable, modular and reusable year after year		Teaches students important 21st century skills

Trusted and Loved Worldwide

Educators in 600+ schools across 30+ countries trust Infento to bring engineering to life in real learning environments. Used internationally in classrooms and STEM programs, Infento is loved by students because they build meaningful, life-size projects they can truly be proud of.



600 +
Schools



200.000
Students



32
Countries



The Design Cycle, Supercharged with modular magic

The design cycle is a core process in STEM education, and Infento is built around this way of working. Through Infento projects, students learn to explore challenges, design solutions, build prototypes, test ideas and improve results. Just like real engineers do!

With Infento, students experience why the design cycle matters. They learn to experiment, make decisions and learn from mistakes, rather than searching for one right answer. This process naturally develops critical thinking, creativity and problem-solving skills.

Infento makes the design cycle tangible by using real materials and life-size constructions. Thanks to its modular system, designs can be easily adapted and rebuilt, making iteration a meaningful and natural part of learning.

*"Tell me, and I'll forget.
Show it to me,
and I'll remember it.
Let me experience it,
and I will understand it."*

- Confucius

1. **Explore:** Investigate what you want to build and why.
2. **Design:** Sketch ideas, compare options and choose the best option.
3. **Make:** Build a life-size prototype with 100% modular parts.
4. **Test:** Try out your prototype and adjust the design where needed.
5. **Communicate:** Present and share the creation with the group.
6. **Reflect:** Discuss what can be improved and plan the next challenge.



Inquiry-based learning cycle that is also used in Infento's Design Challenges.

21st Century Skills in Action: from Classrooms to Future Careers

Our society continues to change rapidly, driven by technological, economic and societal developments that shape the future of work and everyday life. To prepare students for this future, schools need learning experiences that go beyond theory and actively develop 21st century skills such as critical thinking, problem-solving, creativity and collaboration.

Infento supports this by placing students in real engineering situations. While working on life-size, hands-on projects, students plan, test, redesign and reflect together. In this process, essential skills like the ones below develop naturally!



Creative Thinking

Turn bold ideas into unique, life-size creations.



Communication

Express ideas clearly and keep the team aligned.



Critical Thinking

Solve real engineering challenges step by step.



Problem Solving

Test, fail, improve and redesign until it works.



Collaboration

Build together, share roles, and celebrate team success.



Information Literacy

Gather, assess, and apply knowledge to improve builds.



One Modular Kit, Infinite STEM Projects

Infento is built around one powerful idea: 100% modular parts that can be used in countless ways. They can explore STEM and engineering through fully guided projects as well as their own creative ideas.

Students usually start by following our **clear step by step manuals** to build a life-size vehicle so they can get to know the parts and basic engineering principles. Once they feel confident, they can also move on to **Infento Design Projects**. These projects challenge students to create their own version of a specific build. A team of students follow the Design Cycle to build awesome creations. These are some of our Design Projects:

After that, the possibilities truly open up. Using the same modular parts, **students can design and build their own dream creations**. From solar-powered vehicles to builds enhanced with Arduino control and sensors. Everything is possible! Infento gives students the freedom to turn imagination into real, working engineering projects.

- 1 Catapult
 - 2 Sidecar Vehicle
 - 3 Electric Recumbent Bike
 - 4 Horse for the Princess
 - 5 Fitness Machine
 - 6 Drill-Powered Vehicle
 - 7 Wheelchair for UNICEF
 - 8 Prosthetic Leg
 - 9 Formula 1 Electric Car
 - 10 Hospital Stretcher
- and many more Challenges!



Sustainability and quality

Educational materials should last for years, not semesters. That's why we created durable, high-quality learning tools built for long-term use in schools.

INDESTRUCTIBLE ALUMINIUM

The profiles are made of anodized aluminum. This material is lightweight, indestructible and does not corrode.

BEST POSSIBLE BRAKES

The disc brakes function well in any circumstance, wet or dry. Safety comes first.

100% RECYCLABLE

Our aluminum profiles are produced using renewable hydropower and can be recycled indefinitely without any loss of strength or quality.

DURABLE PARTS

Built to last through years of use, our modular parts retain their quality and performance, supporting countless hands-on learning projects over time.

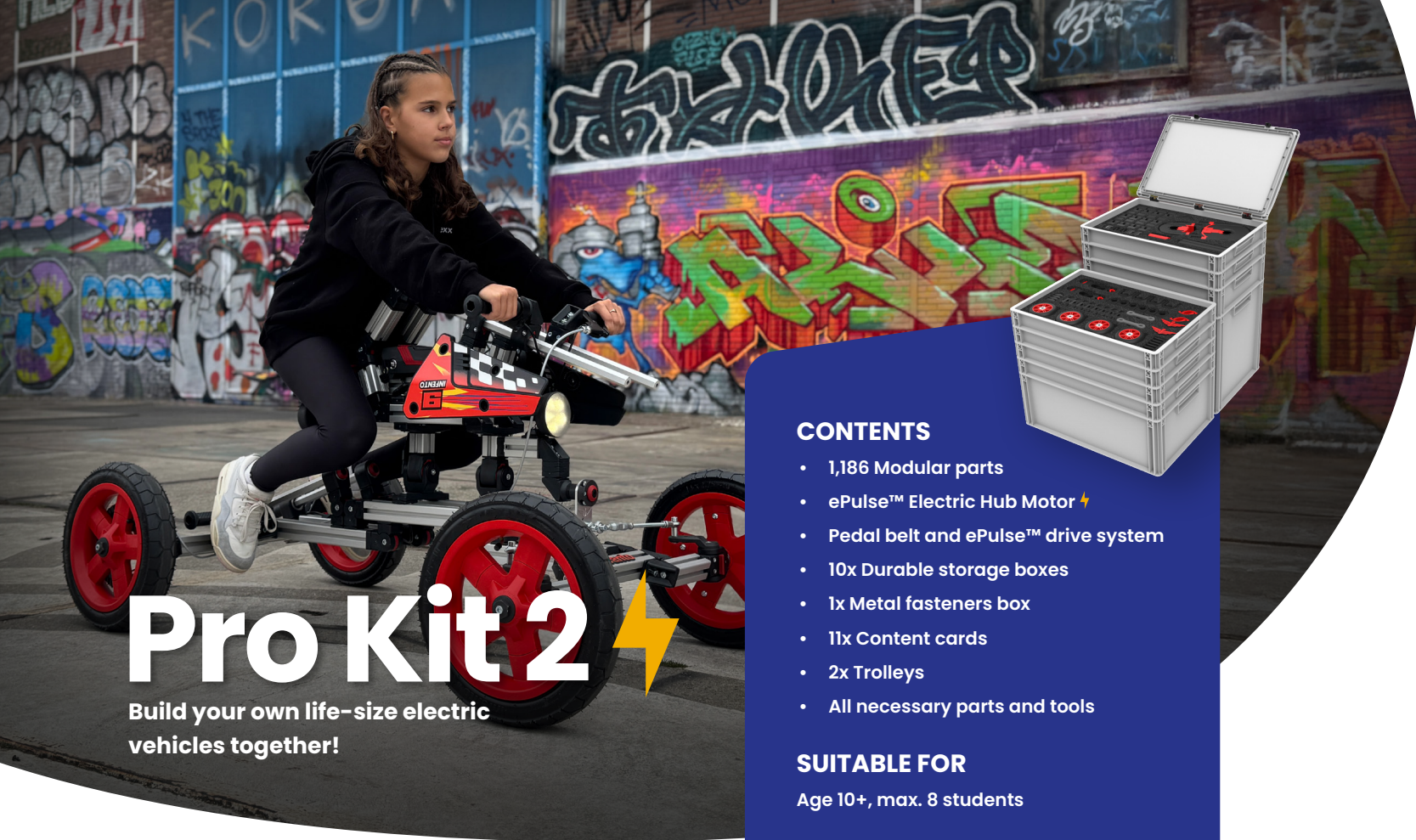
EPULSE™ ELECTRIC HUB MOTOR

The Modular Hub Motor brings electric mobility to life, powering everything with smooth control and adjustable speed.

ENGINEERED FOR MAXIMUM STRENGTH

Our glass-fiber-reinforced composite components are built for strength and safety, making them ideal for intensive, daily classroom use.





Pro Kit 2

Build your own life-size electric vehicles together!

The Pro Kit is our most complete Kit and widely applicable in middle and high schools. Students and teachers of all backgrounds can start working with it, without prior technical knowledge. What makes the Pro Kit truly stand out is the wide range of Rides, including five exclusive models, a large collection of modular parts, Design Challenges, and the powerful ePulse™ Electric Hub Motor. Could the next Henry Ford or Max Verstappen be at your school? Infento can ignite the engineering fire in any child, because building and racing your own electric vehicle on the schoolyard is hard to beat.

With one Pro Kit, up to eight students can work simultaneously. A group of four can build an electric vehicle, or two groups of four can work on smaller vehicles such as a skateboard or scooter. It is also possible to work individually or in smaller groups. When multiple Pro Kits are available, entire classes can work with Infento, or the Kits can be shared across several grades. While working together, students develop lifelong skills in mechanics, design planning, tool use, electric mobility, and more.

CONTENTS

- 1,186 Modular parts
- ePulse™ Electric Hub Motor ⚡
- Pedal belt and ePulse™ drive system
- 10x Durable storage boxes
- 1x Metal fasteners box
- 11x Content cards
- 2x Trolleys
- All necessary parts and tools

SUITABLE FOR

Age 10+, max. 8 students

YOU CAN BUILD

- 76x Life-size (electric ⚡) Rides
 - 5x Exclusive Pro Kit Rides
 - 8x Double Rides (Build 2 Rides simultaneously)
- 20x Design Challenges
- Endless own creations

DURATION PER ASSIGNMENT

2-8 hours, spread across multiple sessions

TEACHING METHOD

Project-based

The Pro Kit consists of 1,186 modular parts, conveniently stored in ten high-quality, mobile storage boxes. Students can start with smaller builds such as a skateboard or paddle tricycle and gradually progress to larger and more complex creations like an electric quad or drift kart. The large number of parts also makes the Pro Kit an ideal platform for exploring creativity, including building Solar Cars or integrating electronics to create Smart Vehicles. Once their vehicle is complete, students test-drive their creation, making engineering tangible and exciting.

Overview

76x RIDES ⚡



Raptor ⚡



Flying Dutchman



Rover ⚡



Rickshaw



Rocket Launcher



Buster ⚡



Quad ⚡



Quad Junior ⚡



Go-Kart ⚡



Go-Kart Duo ⚡



Go-Kart Junior ⚡



Hero ⚡



Fatbike ⚡



Lowrider ⚡



Maverick ⚡



Bandit ⚡



Fatboy



Tortuga ⚡



Flux ⚡



Sonic ⚡



Sonic XL ⚡



e-Flowmotion ⚡



e-Flowmotion XL ⚡



Mistral ⚡



e-Dash ⚡



Hurricane ⚡



Viper ⚡



Blazer ⚡



Whirl ⚡



Dynamo



XD4 ⚡



Bender ⚡



Bulldog



Bulldog Junior



Swing



Twister



Speedster



Cargo



Cargo Duo



Zypher



Nova

Overview

76x RIDES



20x DESIGN CHALLENGES

Exercise Bike	Vertical Drive Vehicle	Drill-Powered Vehicle	High Striker	Wheelchair for UNICEF
Shuffleboard	Catapult	Flying Carpet	Flying Dutchman	Everything on Stilts
Stretcher	Horse for the Princess	Prosthetic Leg	Sidecar Vehicle	Electric Recumbent Bike
Popemobile 2.0	Fairground Turntable	Fitness Mania	Mobile Desk and Chair	Formula 1 Electric Car

Advanced electric fun with ePulse™ Modular Hub Motor

Electric mobility is shaping the future. From cars and bicycles to boats and beyond, electric motors are becoming the standard. With Infento, students don't just learn about this future, they build it themselves.

Using clear manuals, students start by building electric Rides such as a quad, go-kart, or motorcycle. As their confidence grows, they take the next step and design their own electrified creations. From recumbent bikes and scooters to racing cars and experimental vehicles, the possibilities are endless.

At the heart of these creations is the new ePulse® Hub Motor. Fully integrated into the wheel, it makes electric mobility more accessible, safer, and easier to use in the classroom. Its modular design allows students to focus on engineering, design, and experimentation, while experiencing electric drive technology in a hands-on and intuitive way.



Key specifications at a glance:

- Motor power: 384 W
- Speed (km/h): 6 km/h, 11 km/h, 16 km/h
- Speed (mph): 4 mph, 7 mph, 10 mph
- Speed control: Thumb throttle control
- Battery: 4 Ah 24V lithium-ion
- Range: 8-12 km / 5-8 mi
- Runtime: 30-60 minutes
- Charging time: Approx. 2 hours

Complete ePulse™ Electric System with Hub Motor, Docking Station, Braking System and Battery

Discovery Kit 2

Build engineering constructions around themes from science, technology, and play

With the Discovery Kit, students build inspiring small-scale engineering constructions that are perfectly suited for class-wide learning. Each assignment explores engineering and science topics in a hands-on way and can be completed within one 40–60 minute lesson, allowing up to 28 students to work on different builds at the same time.

With the Discovery Kit, students learn:

- **Building** real engineering constructions such as an electric motor, a vehicle, a windmill, a sundial, and more
- **Gaining insights** into key technical and scientific principles through experiments
- **Exploring** relevant and current STEM topics
- **Working** with technical materials used in real-world applications
- **Inquiry-based** and **design learning**
- **Collaboration**, with two students working together on a Discovery build
- **Developing 21st century skills** such as problem-solving and creative thinking

The Discovery Kit consists of 14 boxes with complete assignments for teams of two students. Each team builds all 14 assignments over a self-paced period of time. Every assignment has its own box containing all required materials, including tools and assortment boxes for fasteners, a building manual, and content cards. This setup allows parts to be easily found and efficiently stored for the next team. Each student receives an individual workbook and can start independently, requiring minimal teacher guidance. This makes the Kit accessible for all teachers, even without a technical background. Lessons follow five fixed sections: Introduction, Questions, Build, Discover, and Conclusion.

CONTENTS

- 14x Durable storage boxes
- 11x Assortment boxes (+1 storage box)
- 25x Content cards
- 28x Building manuals
- 30x Student workbooks
- 1x Teacher's manual
- 1x Trolley
- All necessary parts and tools

SUITABLE FOR

Age 8+, max. 28 students

YOU CAN BUILD

14x inspiring engineering constructions

DURATION PER ASSIGNMENT

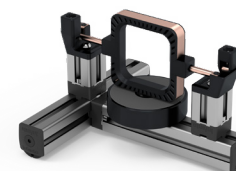
40–60 minutes per Discovery Build

TEACHING METHOD

Classwide & project-based

Overview

14x DISCOVERY BUILDS 🔍



Electro Motor



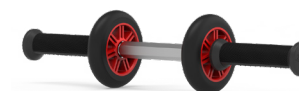
Balance Bird



Beetle



Jet



ABS Roller



Dino



Jeu de Car



Jump Rope



Moonlander



Rocket



Spinning Top



Sundial



Tensegrity



Windmill

28x BUILDING MANUALS 📖



Teaching materials for all 14 Discovery Builds, with two per build, one for each student.

30x WORKBOOKS 📖



Student workbooks with lessons related to the builds, one for each student.

1x TEACHER MANUAL 📖



Teacher manual with tips and guidance to get started.

“ Infento is a wonderful concept that fits perfectly with STEM education. It encourages children to start developing technical skills at an early age while enjoying the process. ”

– Teacher M. Garcia, Florida, USA

“ Infento makes everyone’s mouth water and awakens the creative technician in all students. ”

– Teacher R. Bennaars, North Holland, The Netherlands

“ Infento is an enormous enrichment in an educational sense. It is the perfect way to develop and improve the technical insight of students. ”

– Teacher A. Evans, London, UK

“ Infento is a powerful technical system that truly challenges students. It provides exactly the right technical level for our pre-vocational students and is ideal for projects and competitions. ”

– Teacher N. Müller, Bayern, Germany

Award-Winning STEM Education Kits

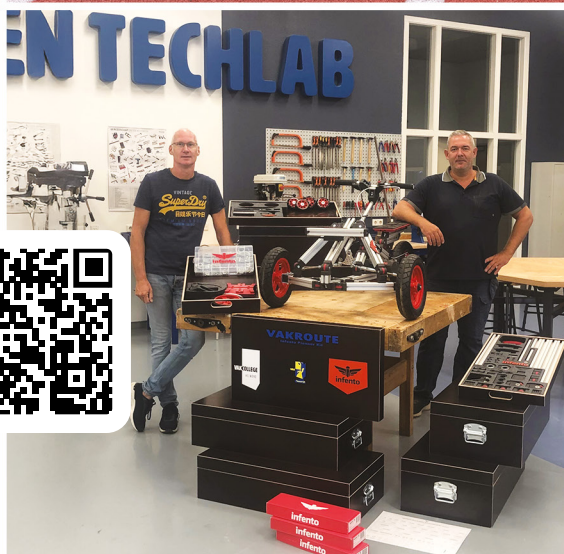


Do you want to become the most innovative school?

Contact our education team via edu@infento.com or scan the QR code!



Want to become a partner?



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