

NTA

Údarás Náisiúnta Iompair
National Transport Authority



Cycle Parking

Cycle Design Manual Webinar 26 Oct 2023



Usual 5 core principles

1. **Safe** –secure for the cycle and risk of personal crime
2. **Direct** –as close as practical to the final destination
3. **Coherent** –well-connected to routes and buildings, easy to find
4. **Attractive** –good quality design and well-maintained
5. **Comfortable** –easy to use and accessible to all



Locating On-Street Short Stay Parking

- Convenience – Close to Destination
- Security – Natural surveillance, not obscured, lighting
- Safety –
 - Don't block pedestrian desire lines or reduce footpath width to sub standard
 - Minimize risk of vehicles striking stands/bikes/ people locking bikes

Golden Rule - would you park your bike there



Table 6.1 Layout dimensions for simple cycle stands.

	Recommended	Minimum
Bay length (length of cycle parked on a stand)	2.0m	2.0m
Bay length (tandems, trailers and accessible cycles)	3.0m	2.5m
Access aisle width (for bicycles only, pushed into position by user on foot)	2.0m	1.5m
Access aisle width (bicycles ridden to stand, larger cycles use the end bay only)	3.0m	1.8m
Access aisle width (all cycles ridden to stand, large cycles use internal bays)	4.0m	3.0m
Spacing between stands	1.0m	0.8m
Gap between stand and wall (part of bay width)	600mm	600mm



Increased Accessibility

1 space per 20

- Larger non-standard cycles so that they can be used by disabled people with adapted cycles
- and other people using tandems, child trailers, cargo bikes and tricycles (non blue)
- Spaces for disabled cycles should be provided in the most accessible locations



October 2023



Increased Accessibility

- Cycle parking shouldn't inconvenience others
- A tapping rail across the bottom half of end stand in a row of stands, retro-reflective material/colour contrast band will help blind and partially sighted users to detect stands
- The rail may also be helpful for securing larger cycles to the end racks





Children's Health
FOUNDATION



ROAD

Keep it Simple on Street

1. Functional – 2 point locking enables both wheels and the frame to be secured
2. Stability – Reducing bikes falling and causing a hazard
 - Sheffield stand
 - An 'A' shape where the cross-piece offers additional resistance to 'twisting' t
 - The 'M' shaped stand also offers better support to small-wheeled bikes and children's bikes
3. Don't use fixings that could easily be removed with simple hand tools. Tamper proof nuts and bolts should be fitted.



Functional = Locking frame + Wheels + Stable



Other Options

Railway stations, commercial developments, workplace, educational establishments and larger residential blocks.

2 tier cycle racks

- a third more cycle parking capacity within the same footprint
- Not for heavy bikes or all users even with spring loaded or gas-assisted.
- The stands can be noisy in operation, which may be of concern in residential areas.

Cycle Lockers

- Generally Annual rental
- One per person
- Vertical ones more for standard bikes



Cycle Hangers

- Within residential areas to provide parking for local residents where there is no space within older dwellings
- Space within the hangar is leased by the Local Authority and access to the hangar is limited to the registered key holders
- Broadly similar in size to a standard parking space but may overhang



6.5.5 Summary of Parking Layout Dimensions

The critical dimensions for the layout of cycle parking are as follows (see Figure 6.11 also for illustration):

- » 3.0m width for two-way cycle track access outside and inside cycle parking facility.
- » 2.0m minimum aisle width for access on foot within parking area.
- » 2.5m aisle width for two-tier racks arranged perpendicular to the aisle.
- » 1.0m between sheffield stand centres.
- » 0.6m from end of a Sheffield stand to any wall.
- » 0.75 x 2.0m footprint for individual horizontal cycle lockers.
- » 2.0m clear space in front of stands, lockers etc. to enable cycle to be positioned.
- » 2.7m ceiling height for two-tier racks.
- » Max. gradient 5% on access tracks/paths (excluding ramps within a cycle parking facility)

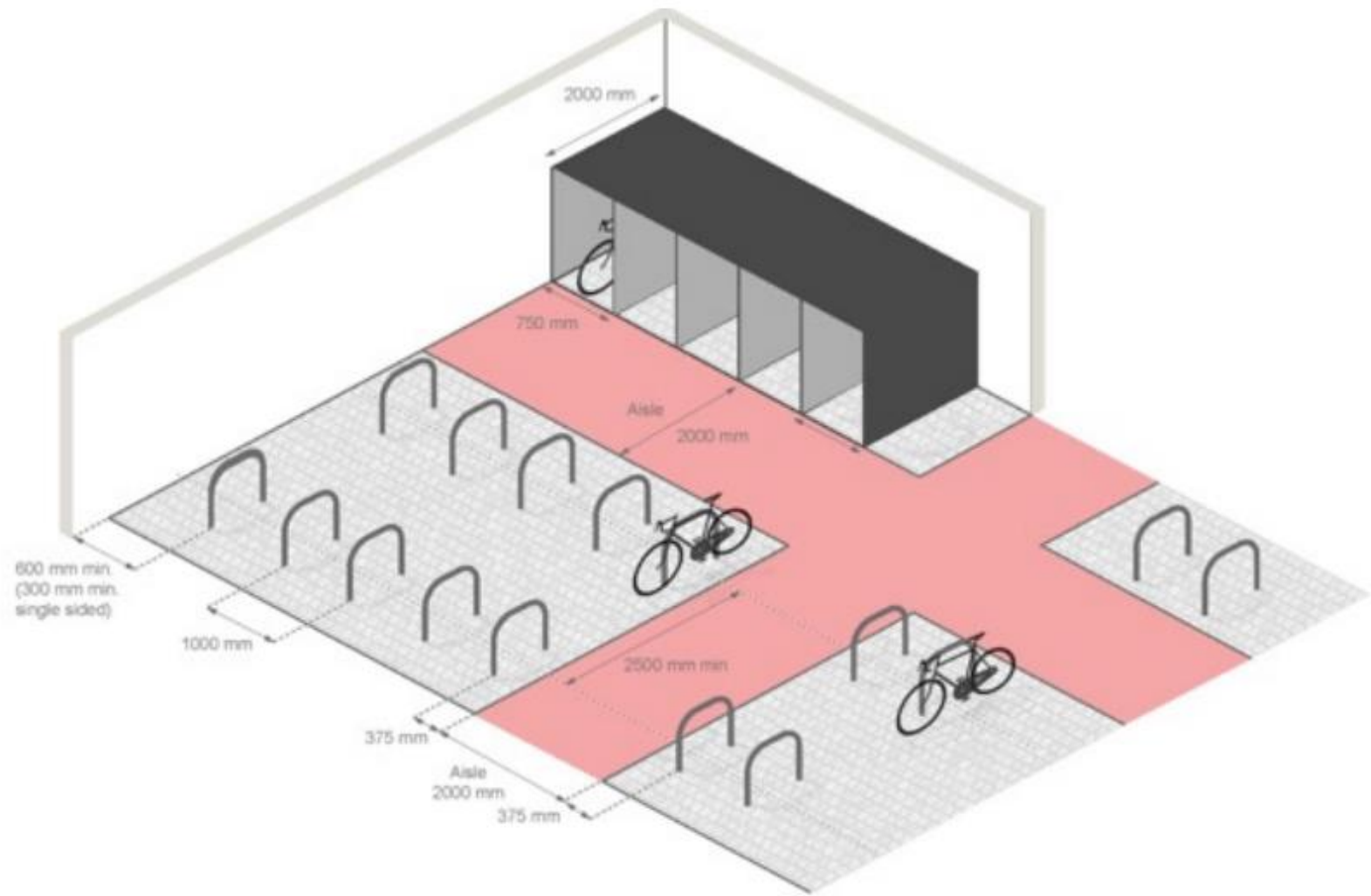


Figure 6.11: Cycle parking dimensions.

Impact of Secure Cycle Parking

- 46% residents think secure cycle storage at or near home would help them cycle more
- 1 in 6 who have bicycle stolen given up cycling

There is a public cycle parking space for every **31** people who cycle in the Dublin Metropolitan Area.



38 in
2019

Reported cycle thefts

There were **3,789** reported cycle thefts in the Dublin Metropolitan Area in 2020/21.

3,997 in 2019/20

For every **154** people who own an adult cycle in the Dublin Metropolitan Area, there was **1** reported cycle theft in the past year.

Public Secure Cycle Compounds/Hubs

- Cycle hubs are common in other countries at railway stations
- May also be provided within town centres co-located within large car parking facilities
- The hubs offer a range of services to users which may include:
 - » Tools available for public use
 - » Air pumps for public use
 - » Cycle repairs
 - » Cycle sales
 - » Cycle hire
 - » Cycle freight business
 - » Changing rooms and showers





Temporary Cycle Parking for Events

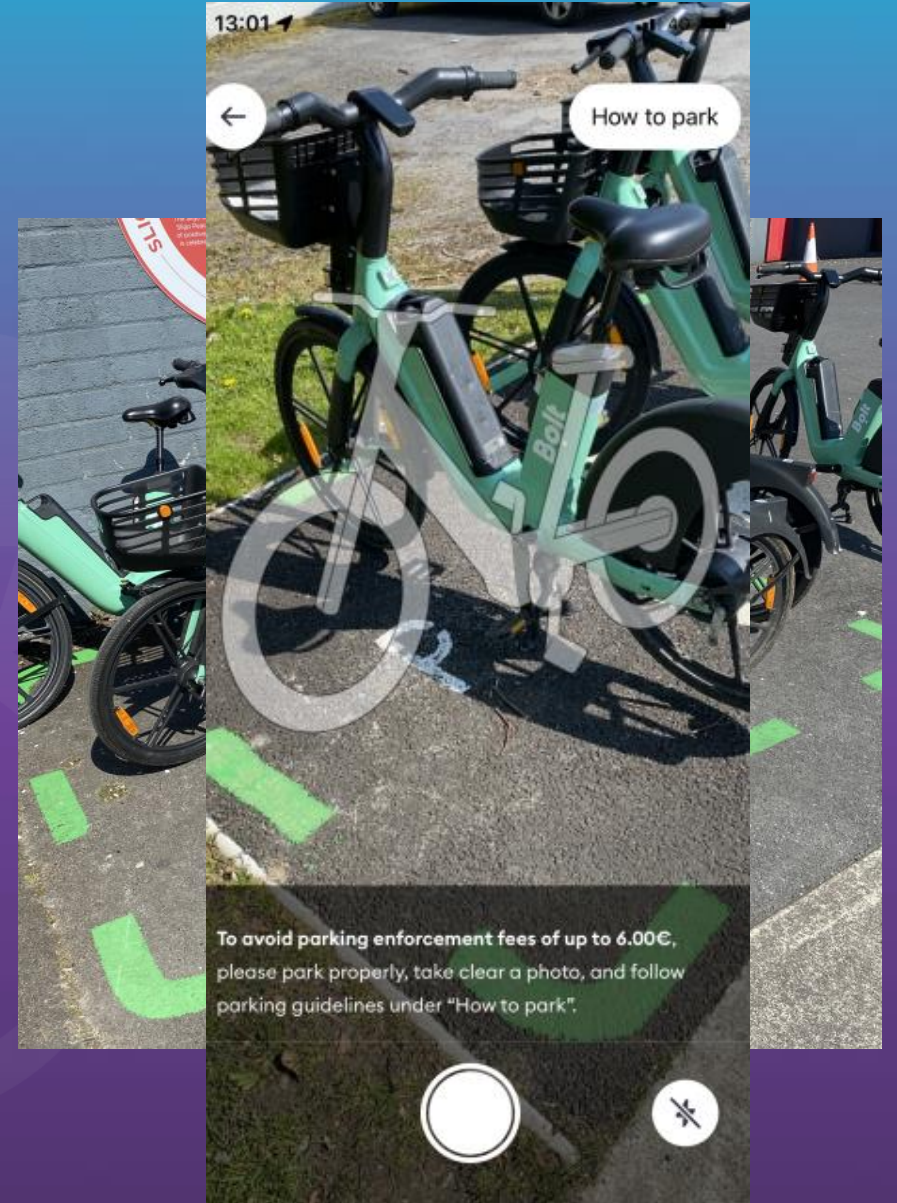
- Festivals, markets, concerts, fairs, exhibitions and sports events
- Catering for an increase in cycle parking demand / where permanent cycle parking provision is either yet to be decided

Type

- Cycle Stands and Racks
- Linked Pedestrian Barriers
- Scaffold Pole Structure



Bike Share Parking



Managing Abandoned Cycles

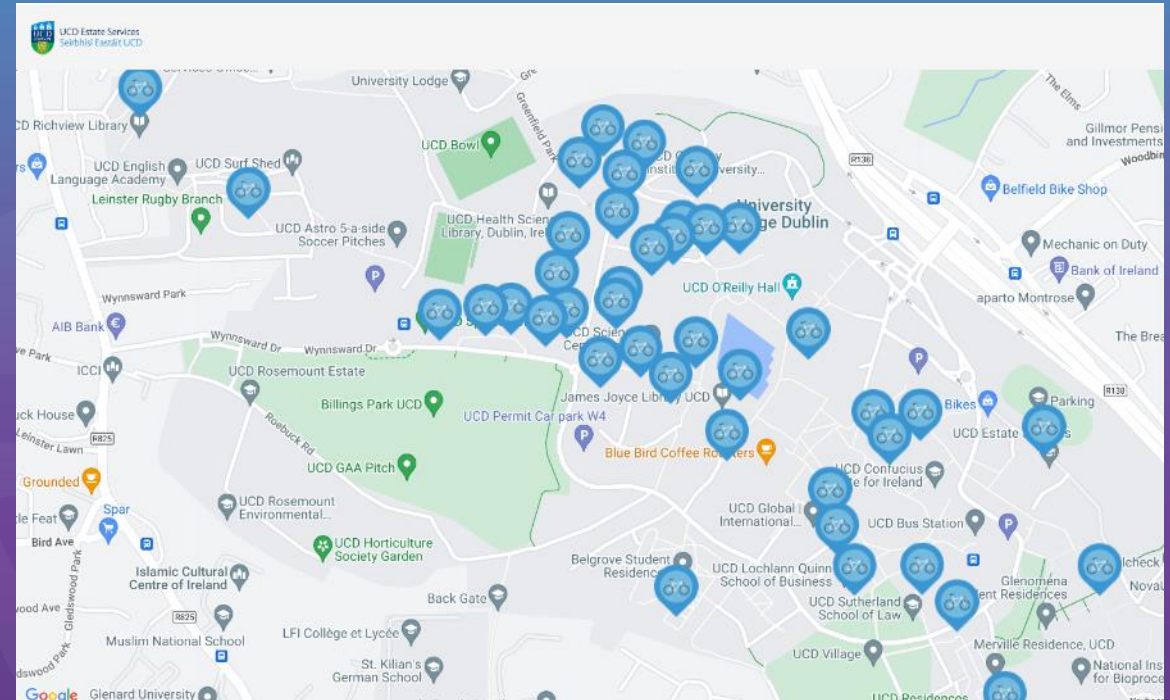
Unightly and reduce capacity

- Secured in a dangerous place
 - Unroadworthy
 - Missing wheel(s)/Seat
 - Buckled front/rear/both wheels
 - Bent forks
 - Seized/damaged brakes/gears
 - Missing chain
1. Tagged for 2 weeks
 2. Removed
 3. Recycled or donated to bicycle recycle scheme



University College Dublin

- 27,000 students, 4,000 staff
- 3,400 car parking spaces
- Approx. 4,800 cycle parking spaces
- All around campus in
- Covered, uncovered, compound
- Showers and lockers available
- Lockers multi use, cleared out each night





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BABBOE'S

BABBOE'S

DEMA

Mix of facilities



Lockers and Showers



Notice Summary:

Estate Services have made day lockers & shower facilities available for staff, students and visitors commuting to the Belfield campus between 08:00-21:45 Monday to Friday and 08:00 to 17:45 on Saturdays.

The lockers are available at no charge on a first-come, first-served basis, use electronic keypad locks and do not require you to bring your own lock. Please note they will be cleared out each night 15 minutes prior to the building closing and personal items are not to be left in the locker except during the above times. Any property left behind will be added to the lost and found.

Cost Effective and Sustainable

College Tribune.

Independent News for University College Dublin

*Since 1989

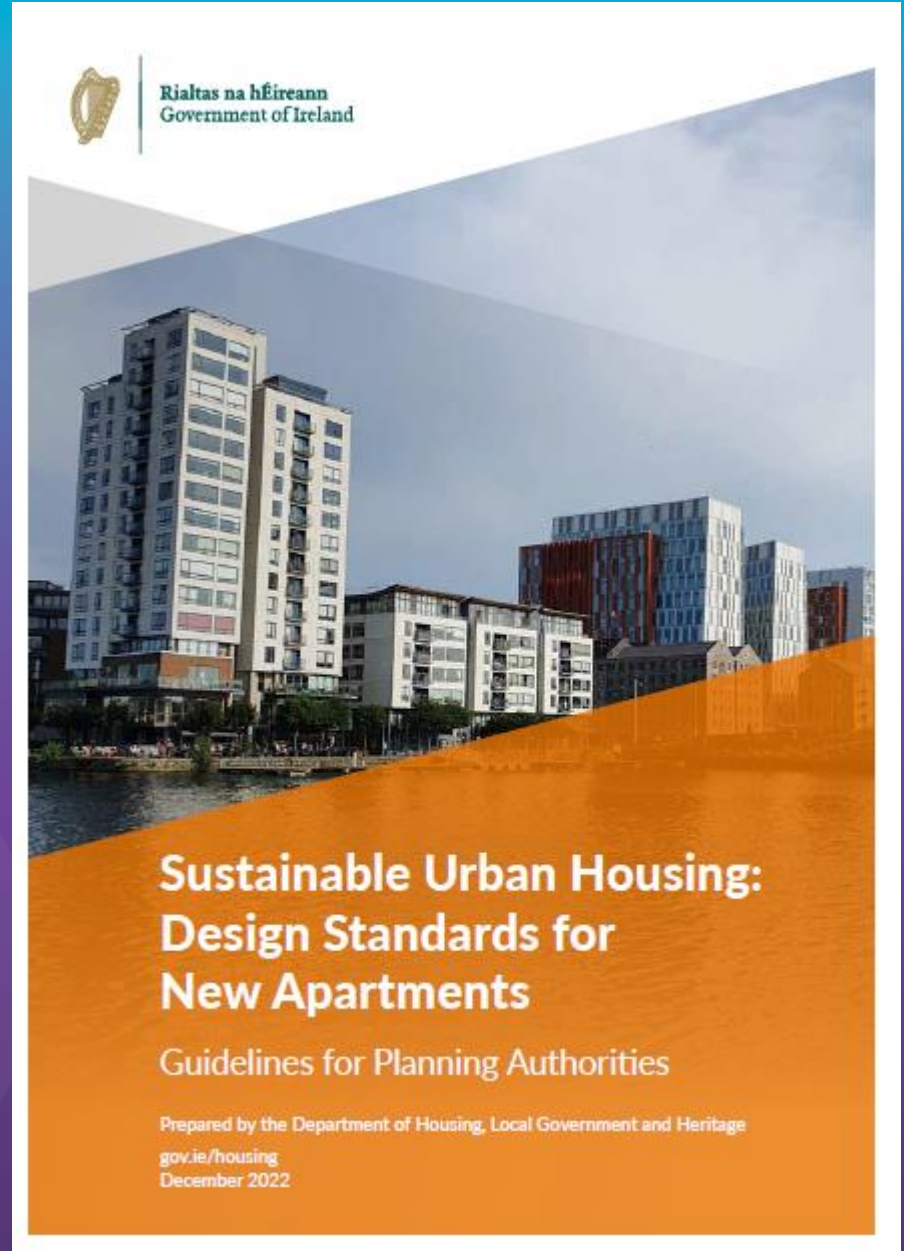


Plans for €12.5 Million Five Storey Car Park by Water Tower Scrapped

“ Since 2013 UCD’s travel plans have emphasized sustainable commuting to college and reducing the number of car journeys to campus.”

Quantum

- general minimum standard of 1 cycle storage space per bedroom shall be applied. For studio units, at least 1 cycle storage space shall be provided.
- Visitor cycle parking shall also be provided at a standard of 1 space per 2 residential units



Cycle Parking Standards

Dublin City Council very good example

- Quantity
- Type (ability to lock frame and wheel)
- Includes destination facilities such as showers, drying rooms, Multi user lockers etc..

Table 1: Bicycle Parking Standards for Various Land Uses

Category	Land-Use	Zone	Long Term	Short Stay/Visitor
Accommodation	Hotel ¹	All Zones	1 per 5 staff	To be determined by the planning authority on case by case basis
	Nursing Home Elderly Persons Accommodation/ Sheltered Housing ²	All Zones	1 per 5 staff 1 per 5 residents	1 per 10 residents
	Residential Apartment ³	All Zones	1 per bedroom	1 per two apartments
	Residential Dwelling	All Zones	1 per unit	1 per 5 dwellings
	Student Accommodation	All Zones	1 per bedroom	1 per 5 bedrooms
Civic, Community and Religious	Bank Community Centre Library Public Institution	All Zones	1 per 5 staff	1 per 100 sq. m. Gross Floor Area(GFA)
	Place of Worship	All Zones	-	1 per 20 seats
	Funeral homes	All Zones	-	To be determined by the planning authority on case by case basis
	College of Higher Education	All Zones	1 per 5 staff 1 per 2 students	
Education	Crèche/Childcare Services ⁴	All Zones	1 per 5 staff	1 per 10 children
	Primary Schools	All Zones	1 per 5 staff 1 per 5 students	
	Post Primary Schools	All Zones	1 per 5 staff 1 per 5 students	

Transport and Mobility: Technical Requirements | Appendix 5

Category	Land-Use	Zone	Long Term	Short Stay/Visitor
Medical	Clinics and Group Practices	All Zones	1 per 5 staff	To be determined by the planning authority on case by case basis
	Hospital	All Zones	1 per 5 staff	1 per 10 beds
Retail and Retail Service	Café Restaurant	All Zones	1 per 5 staff	1 per 10 seats
	Public Houses	All Zones	1 per 5 staff	1 per 150 sq. m. GFA
	Retail Retail Warehousing	All Zones	1 per 5 staff	1 per 100 sq. m. GFA
Enterprise and Employment	Offices ⁵	All Zones	1 per 75 sq. m. GFA	To be determined by the planning authority on case by case basis
	Manufacturing/ Warehousing	All Zones	1 per 200 sq. m.	-
	Clubhouse Gymnasium ⁶	All Zones	1 per 5 staff	1 per 50 sq. m. GFA
	Courts Pitches	All Zones	1 per 5 staff	4 per pitch or court
Venue	Auditoriums Cinema Conference Centre Theatre Stadia	All Zones	1 per 5 staff	1 per 20 seats

¹ Includes Guest House, Bed and Breakfast, Hostel Accommodation.

² Includes Adapted Bikes/Mobility Scooters

³ Include provision for e-bikes/cargo bikes/bike trailers/adapted bikes

⁴ Include provision for scooter parking/cargo bikes/bike trailers

⁵ Includes Business/Professional, Office Based Industry, Science and Technology Based Enterprise, Business Park. Incorporate opportunities for future expansion should demand arise.

⁶ Includes Leisure and Recreation Centres.

Cycle Parking at Schools

Via Green Schools and Safe Routes to School

NTA have funded

- 12600 cycle parking spaces
- at 731 schools since 2020

Including installation





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