Funkcinis testavimas

ETS

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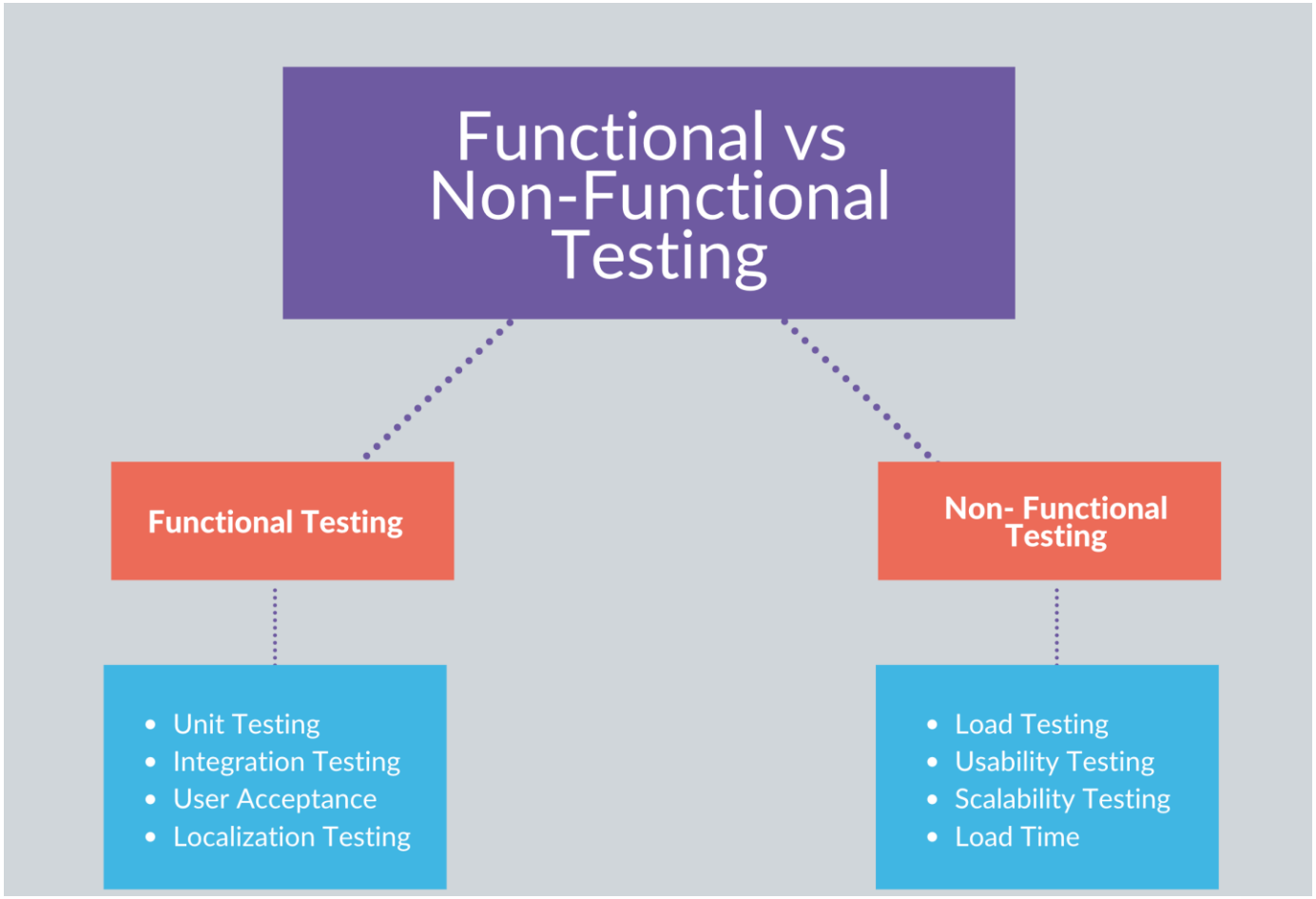
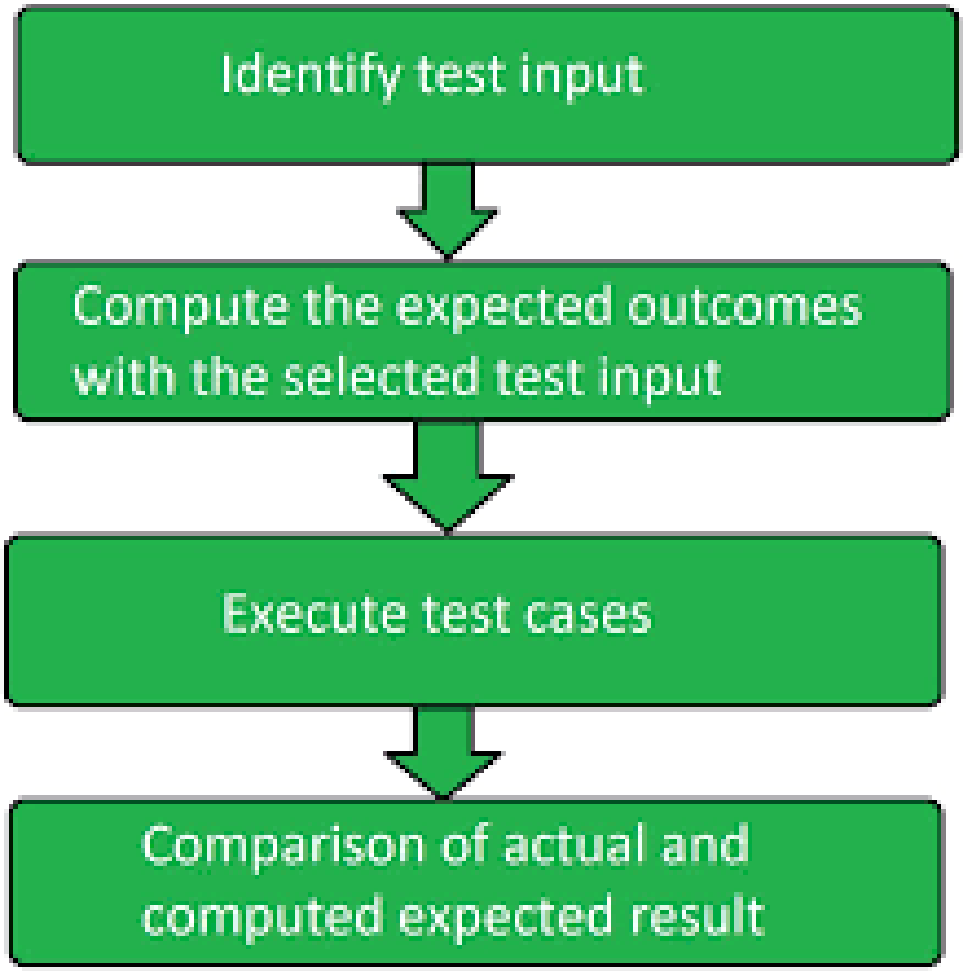
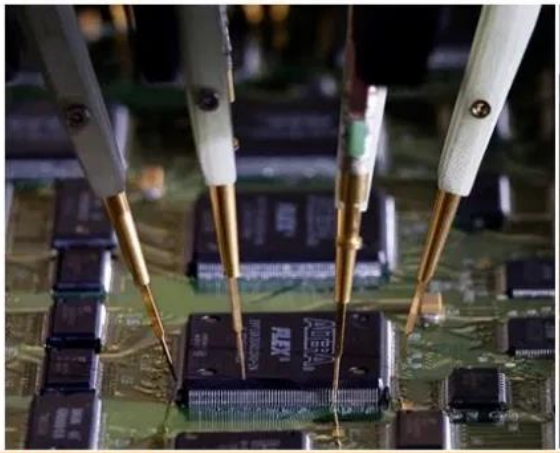
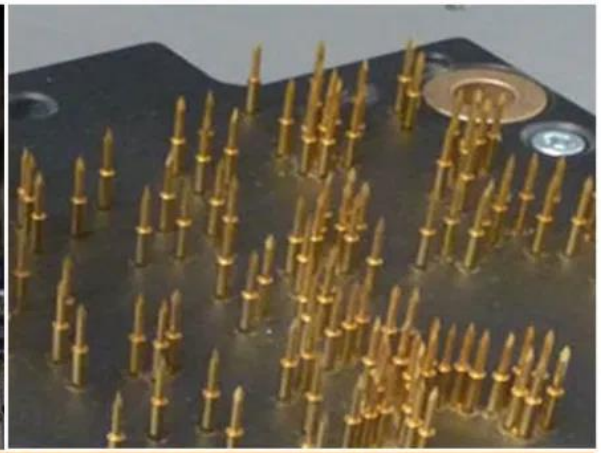


Funkcinis testavimas



Bed of Nails vs Flying Probe





	Flying probe	Bed-of-nails fixture
Pros	• Lower setup cost, software-controlled coordinates. • Fast time to first test, because of fast development cycle. • High-density PCBs do not require specific test pads which take up space. • Capable of testing off-angled legs and pads of different chip packages.	• Suitable for all levels of electronic engineering. • Easy to implement, test equipment can be simple to setup and operate. • Faster option for hundreds or thousands of test points. • Fast test/programming for mass-production boards. • On-Board Programming (OBP), In-Circuit Testing (ICT), Functional Circuit Testing (FCT) on one fixture.
Cons	• Needle probes have limited lifespan and require periodic replacement • High capital investment of equipment, unsuitable for hobbyists or smaller companies with low throughput.	• Jigs are of one-off use for each particular PCB design, if there is a footprint revision in the PCB design, a new jig is required. • Necessary test-pad areas on the PCB will take up real-estate space. • Setup cost for a jig might be prohibitive • Unable to test fine-pitch traces or off-angled chips

Jtag Boundary Scan