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 Services and Dependency Injection
 1 1 mechon
 Angular services are singleton object
 Angular services are sig singleton object that gets instantiated only once in a lifetime of an application
0 0 17
 Consider an application having:
 Consider an opposition
App Component
 The state of the s
About Component User Component
 About Component User Component (log data to Console)
1200 Data 1
User Detail Component (log data to console)
 We might have some methods in those components
components
Let's Say we want to log some data in
Let's Say we want to log some data in About Component and Usex Detail Component
Both logs are same, so basically we are duplicating code in 2 different component
production of the sent component
Suppose in User Component, we also want to
Suppose in User. Component, we also want to access some data a some array of users and we don't know if we will later use that in other part of application
later use that in other bout of abblication
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	Both User Cases
1 11	90111 080
	5 1 1 1 0 F C 10
*	Duplication of Code
*	Duplication of Code Data Storage
0 1	
	In both cases we typically use Service
	A Require is just another piece in your
	A Service is just another piece in your Angular App, Another class which acts as a central suppository, as a central business unit
	Jacks a control siebository
	acts as a wenter
	as a central business usur
,	where you can Centralize your code
+	About Consequent Like Consequent
	we can vicate, a log Service to centralize
	Duran De Marte de Curbinto in used
	Six log Statement Which is used
30001	in 2 components)
المصلا	
	Service are also useful for Communication between components
	Communication between Donate H
	Communication between component
74	1th and the treation of the
	How to create a Service
	The second second
v	$C_{i}$
*	Dimply Yun command
32.3	na a G Service-nama
	Simply run command ng g S service-name
1, 1, 1	Naus 0 2011 1 1 1
	your service will be generated
	The state of the s

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	How do you Access a Service In
	Your Component?
	Jour Component!
	Let's say you have made seewice no
	Let's say you have made service named
	You can Simply instantiate your Logging Service
	account. component. ts.
	The state of the s
*	you can a const service = new Logging Service ();
of	Import the Logging Service
	50.9
*	service. logstatus (status);
	Your method you wanted to call
	from service in component.
	Q + L, , , , , , , , , , , , , , , , , ,
	But this is not suggested Angular provides us more better way to Inject Service
	more better way to inject Service
	in Our Component.

Angular Dependency Injector Angular provides us more better way to inject service In component It is Angular dependency Injector So, he have dependent on logging Service from own component and dependency injects this dependency instance of our class automatically into our component. We need to only Inform Angular, that we require such an instance How do we Inform that? We add constructor to the component you'll see constructor present by you have made service through command component Inside constructor, I can bind it to Constructor (private logging Service · Logging Service)

2 8 (make sure to import logging service at top)

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	Now Angular know we want logging Service. But it doesn't know how to give instance
*	Add one providers property In @ Component decorator.
	@ Component ({ Selector; template URL:
	Style URL:  providers: [logging Service] > [Here we have provided]  y) @ have provided]
	Hierarchical Injector
	Angular dependency injector is actually a hierarchical Injector.
	It means that If we provide a service in one component, then Angular framework knows how to weak instance of service for this component and important, all it's child components
	for this component and important, all it's child components
	All of them will receive same, instance of sensice

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Hierarchical Injector

App Module - Same Instance of Service is available Application-wide

App Component > Same Instance of Service
is available for all components

(but not for other service)

Any other Component > Same Instance is available for component and all its child components,

It works Top to down not down to Top

Suppose If you want to use same Instance of Service in App Component to Child component

Then you don't use providers in child component

Everything else stays same.

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niecting services into service	riecting	Services	into	Services

If we are providing service in module, we make sure we are using some instance of service everywhere, in every component throughout app Unless every component throughout app Unless we are oversiding over service.