

CEZERİ





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CEZERI

1

Cezeri was born in 1136 in Tor, Cizre (Hijri 531).

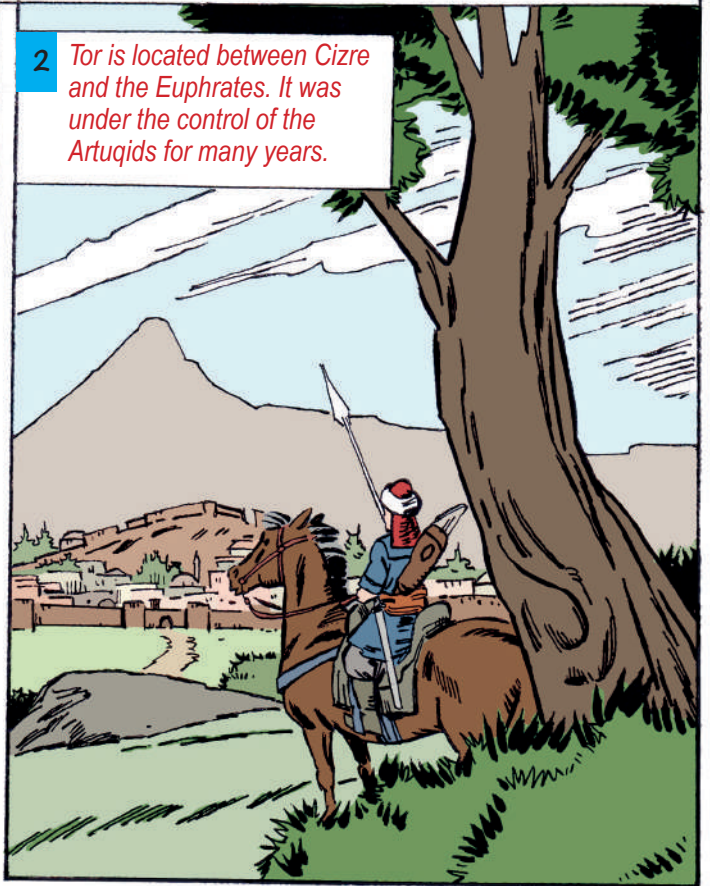


Let's name our son "Ismail."

May he be a healthy and blessed child. May his fortune be bright. What more could I ask for?

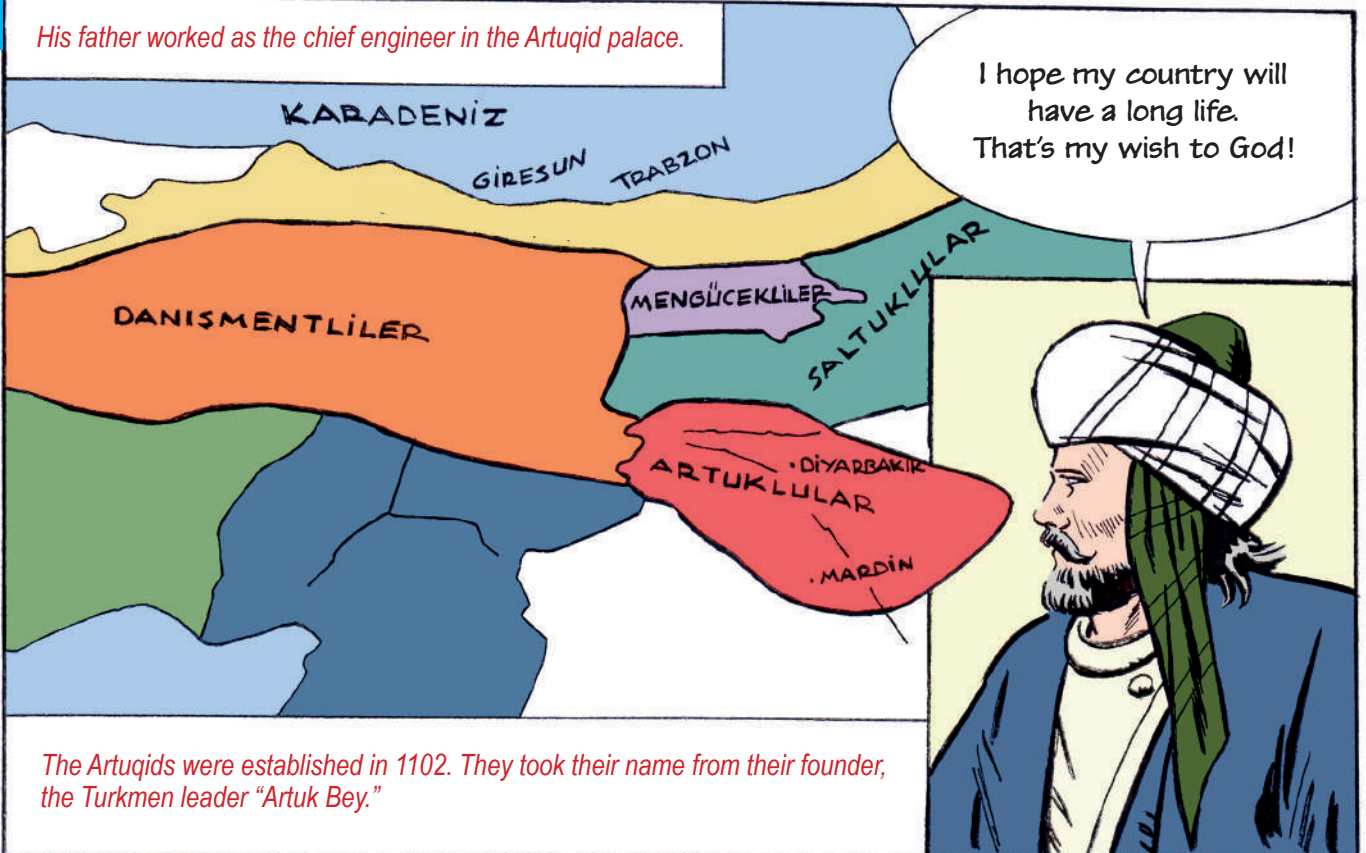
2

Tor is located between Cizre and the Euphrates. It was under the control of the Artuqids for many years.

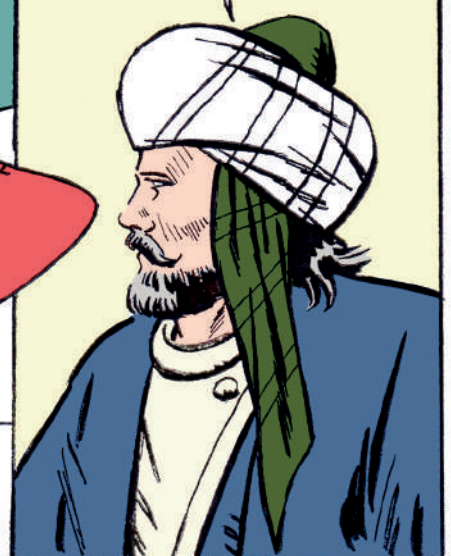


3

His father worked as the chief engineer in the Artuqid palace.



I hope my country will have a long life. That's my wish to God!



The Artuqids were established in 1102. They took their name from their founder, the Turkmen leader "Artuk Bey."

4

Ismail's interest in technical things began at an early age.

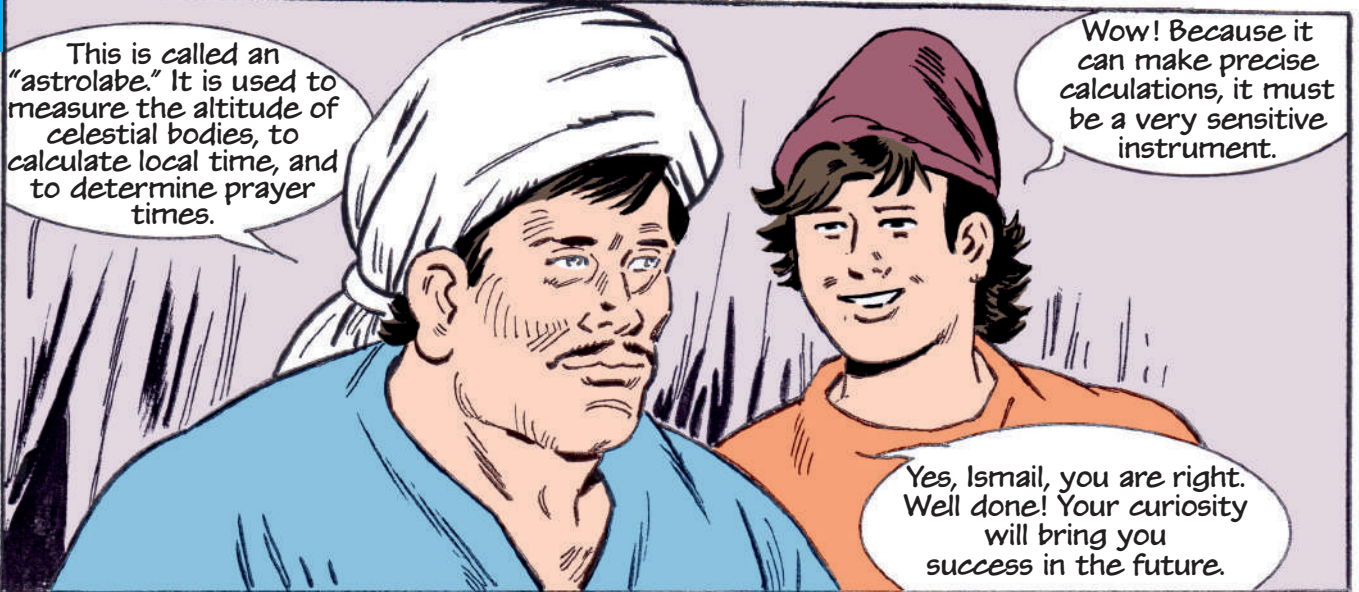


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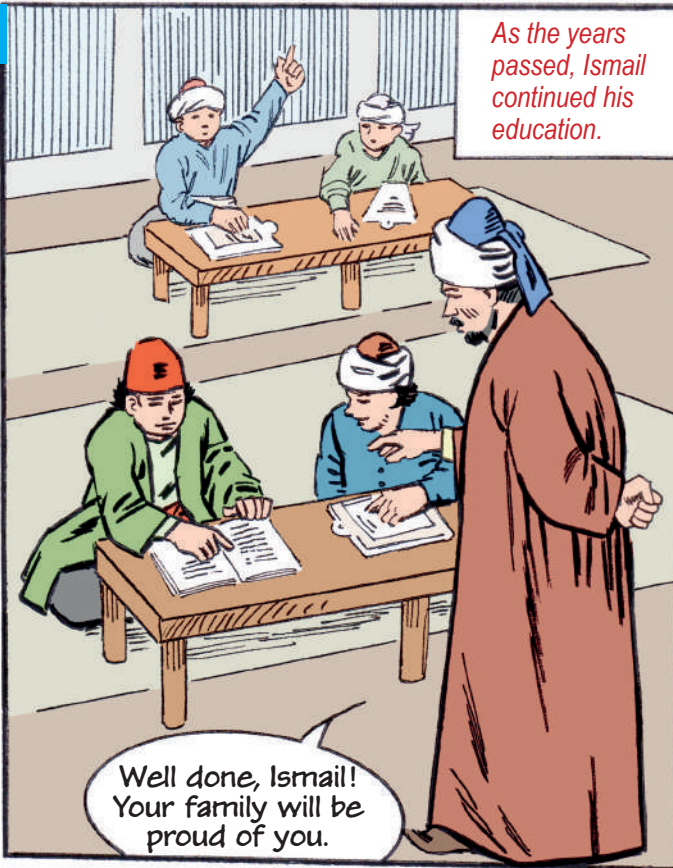
Whenever Ismail saw a master, he would watch him closely and try to learn something.



6



7

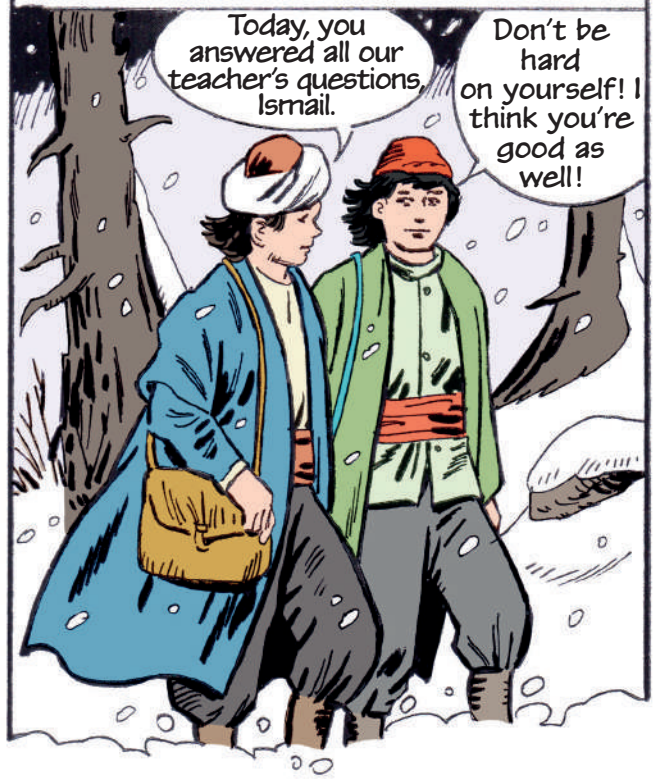


As the years passed, Ismail continued his education.

Well done, Ismail! Your family will be proud of you.

8

On a winter day, Ismail and his friend finish their lessons and leave for home.



Today, you answered all our teacher's questions, Ismail.

Don't be hard on yourself! I think you're good as well!

9

When they were close to home, Ismail saw his grandfather by the fountain.



10

His grandfather was performing ablution at the fountain in the freezing snowy weather.



What's the matter, Ismail? Haven't you seen your grandfather performing ablution before?

Of course, I've seen it many times, but the water must be ice cold in this weather!

11



Of course, I've seen it many times, but the water must be ice cold in this weather!

Well, what was he supposed to do, Ismail?

12



Well, I'm thinking about how I can build a machine for him so that he can perform ablution without getting a cold.

It's a good idea, isn't it?

13

After ablution, his grandfather headed towards home.



Oh, my dear grandfather! He's shivering so much!

14



Meanwhile the Artuqid Sultan was Nureddin Mahmud. He was a ruler who valued science.

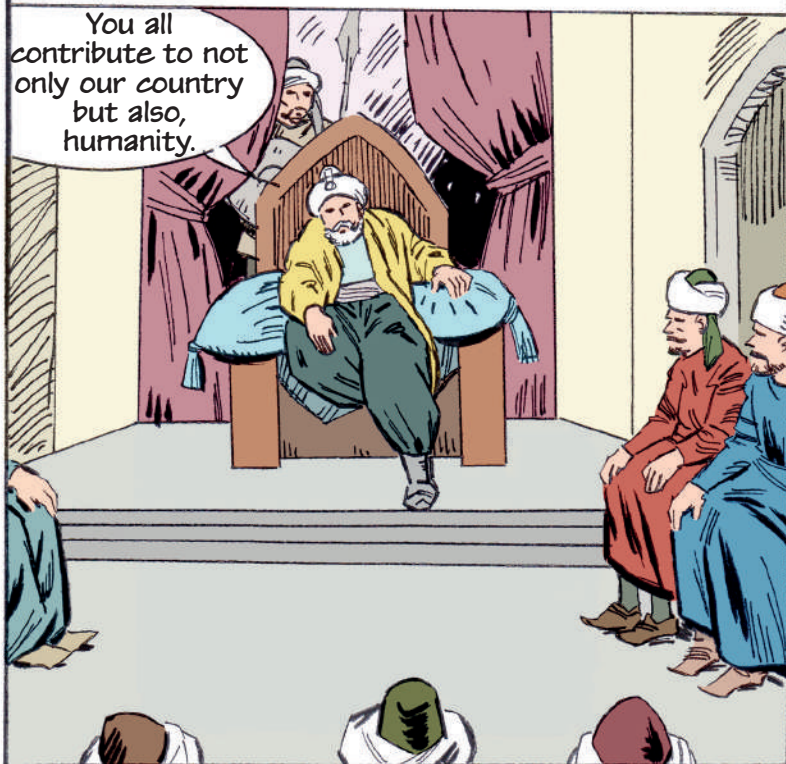
15 Sultan Mahmud invited the leading scientists and many talented craftsmen of his time to his palace.



16 As Ismail was born in Cizre, everyone called him "Cezeri." Despite his young age, he also took his place among the scientists gathered in the palace.



17 Sultan Mahmud was quite old. However, he closely followed the work of the scientists and never stopped supporting them.



18 Cezeri usually worked on tasks with technical skills



19 One day, the Sultan called Cezeri, because he reduced the risk of bridge collapse by 20 filling the gaps between the bridge pillars.



You are a technical genius! You must use this intelligence in the right place. Don't forget that.

By God's will, I will always remember it, my Sultan!

20 Cezeri, now I want you to make a new door for the palace.



As you command, my Sultan! I will make a door worthy of your palace.

21



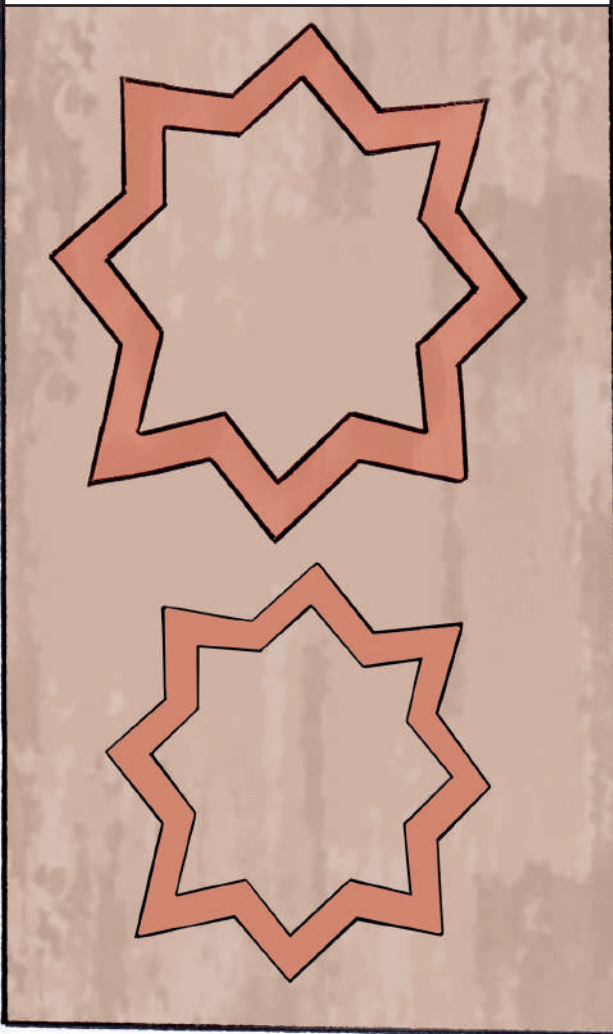
I must design the door to match the architecture of the Artuqid Palace.

22 Returning to his workshop, Cezeri immediately started working on the new door.

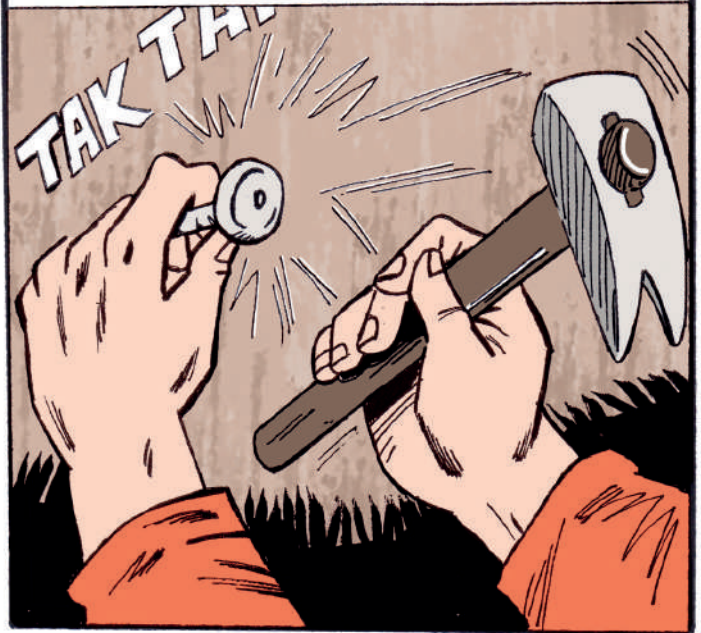


I must not disappoint our Sultan! I have to make a door that no one has ever seen before.

23 First, Cezeri prepared wooden star molds.



24 He made iron nails. He created some slots for placing the nails.



26 He had designed the door's locking system so they can lock the door inside.



I appreciate you, Cezeri! The door is perfect for our palace.

Thanks to you, the palace has got a unique architectural style.

I tried to create a work worthy of your fame, my Sultan!

25 Finally, he completed the construction of the door.



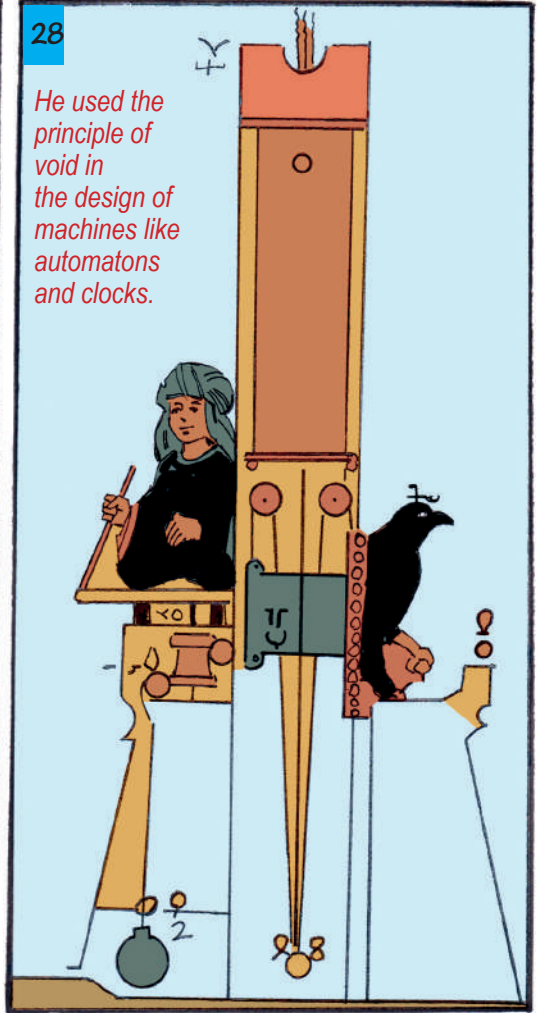
27 *Cezeri knew well that work added meaning to life. That's why he worked day and night.*



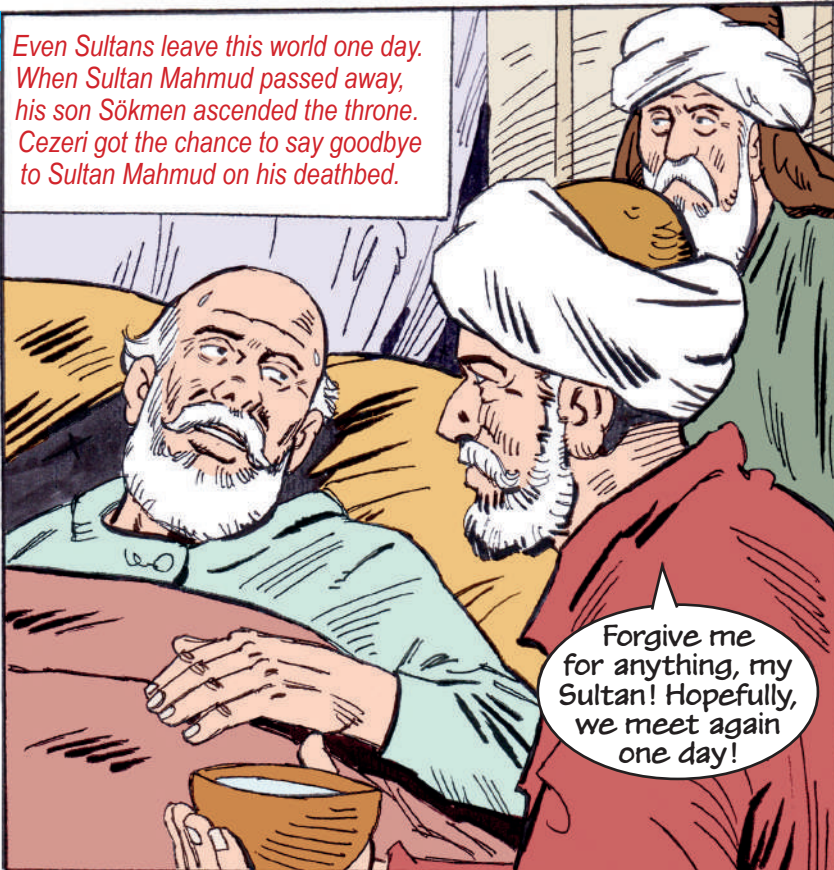
He made very precise scales using water and candles.

28

He used the principle of void in the design of machines like automatons and clocks.



29 *Even Sultans leave this world one day. When Sultan Mahmud passed away, his son Sökmen ascended the throne. Cezeri got the chance to say goodbye to Sultan Mahmud on his deathbed.*



30 *With the support of Sultan Sökmen, Cezeri continued his work.*



My dad used to appreciate your work all the time. From now on, just consult me when you need something.

31 In his workshop, Cezeri designed many devices. Automaton, water clocks, water pumps, musical instruments, and mechanical toys.



32 One day, Sultan Sökmen called Cezeri and asked him to make a new device...



34 Cezeri started to draw designs in his mind. After one or two drawings, he managed to design what he wanted.



33 Cezeri started his work right away. He had ideas for such a machine before. At first, he looked over these ideas.



35

First, Cezeri designed a peacock. Its neck was bent downwards...



I should also make a basin under the peacock.

37

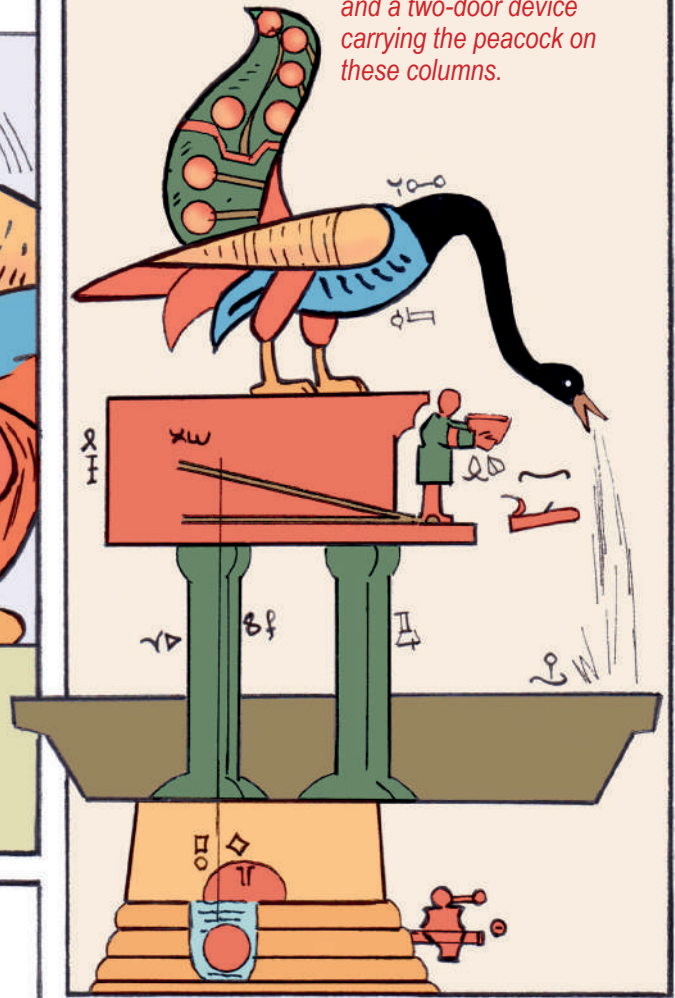
I need to make a base under the peacock.



My Sultan, now you don't need any assistance while performing ablution.

36

Cezeri put the parts together. He made a basin, a column rising from the basin's floor, and a two-door device carrying the peacock on these columns.



38

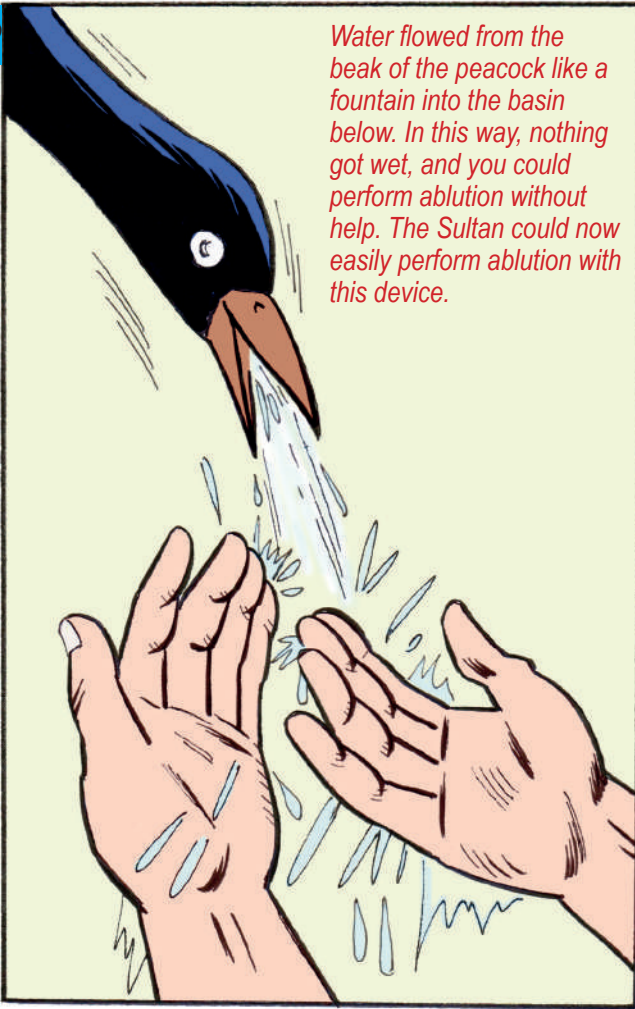
Cezeri showed the machine to the Sultan.



Here it is, my Sultan, the ablution machine you asked for.

Hmm, it looks interesting, Cezeri! Show me how it works.

39



Water flowed from the beak of the peacock like a fountain into the basin below. In this way, nothing got wet, and you could perform ablution without help. The Sultan could now easily perform ablution with this device.

40



Incredible! You have done a great job again, Cezeri. I am looking forward to seeing what else you will come up with.

Thanks to you, my Sultan!

41

One day, a palace doctor visited Cezeri in his workshop.



Good luck with your work, Cezeri! I see you are busy again.

Thank you, doctor. Welcome.

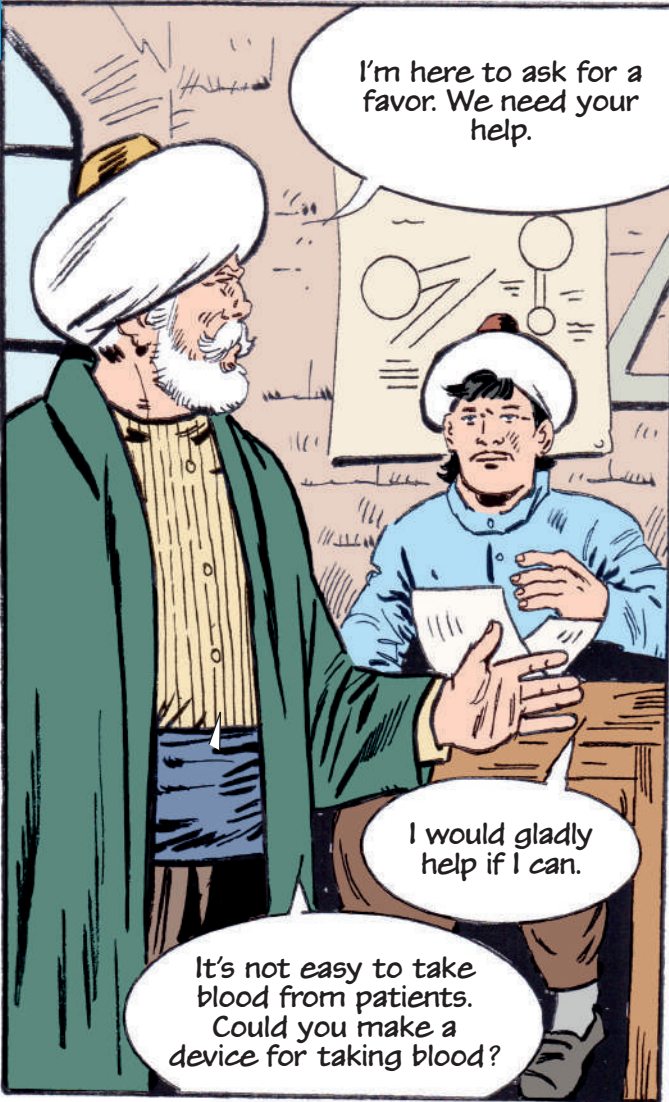
42



Your devices are extraordinary. How do you think of these ideas? They don't just fall from the sky!

Oh, doctor! I design everything according to the principles of science. That's the key!

43

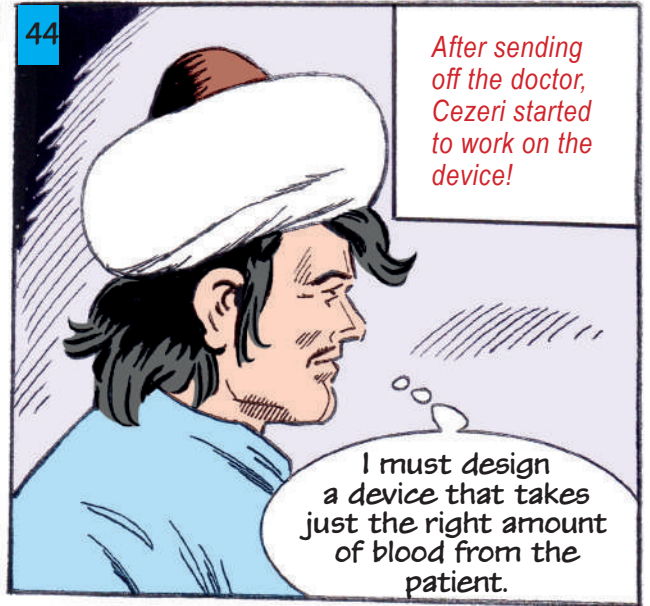


I'm here to ask for a favor. We need your help.

I would gladly help if I can.

It's not easy to take blood from patients. Could you make a device for taking blood?

44

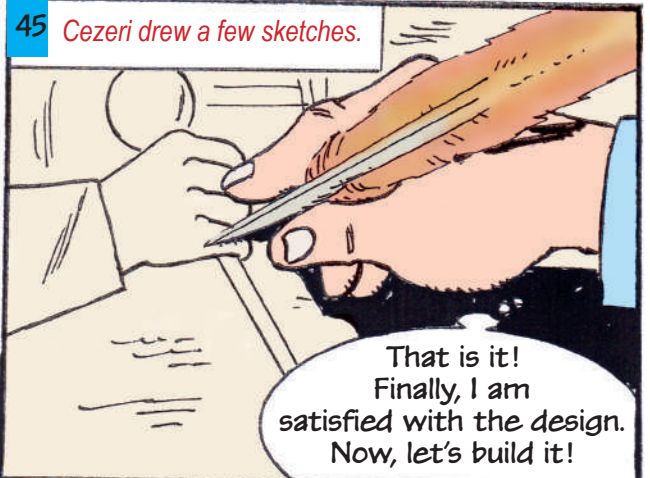


After sending off the doctor, Cezeri started to work on the device!

I must design a device that takes just the right amount of blood from the patient.

45

Cezeri drew a few sketches.



That is it! Finally, I am satisfied with the design. Now, let's build it!

46

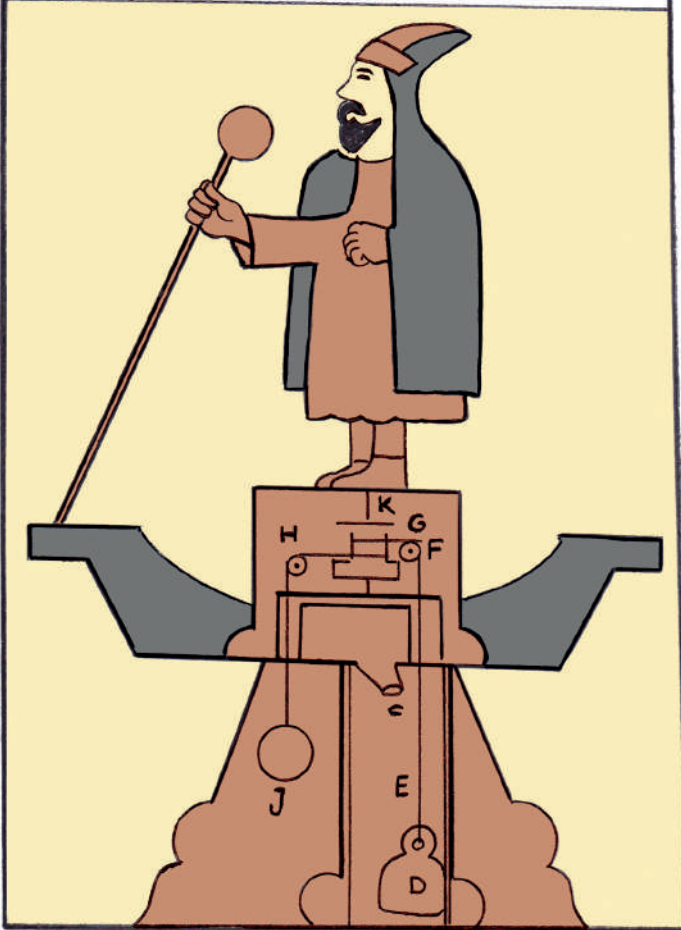
Cezeri finally made bloodletting cups. Now they can measure the amount of blood taken from the patient.



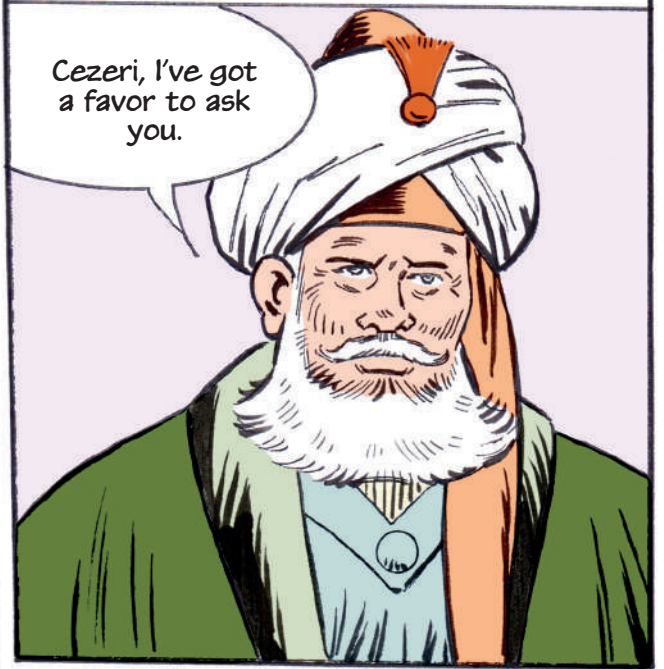
With this tool, doctors can easily take the desired amount of blood from patients.

Noone, but Cezeri could have done this. We were right!

47 *Cezeri finished the bloodletting cups. He showed the doctor how it worked and delivered the device. He was happy to make something useful for people.*



48 *Cezeri never stopped working. Sultan Sökmen died, and his brother Mahmud became the new Sultan. The new Sultan continued to support Cezeri's work.*



Cezeri, I've got a favor to ask you.

49



I want to build a big bridge in Hasankeyf.

But not just any bridge! It should have inns, baths, and shops underneath.

Your wish is my command, my Sultan.



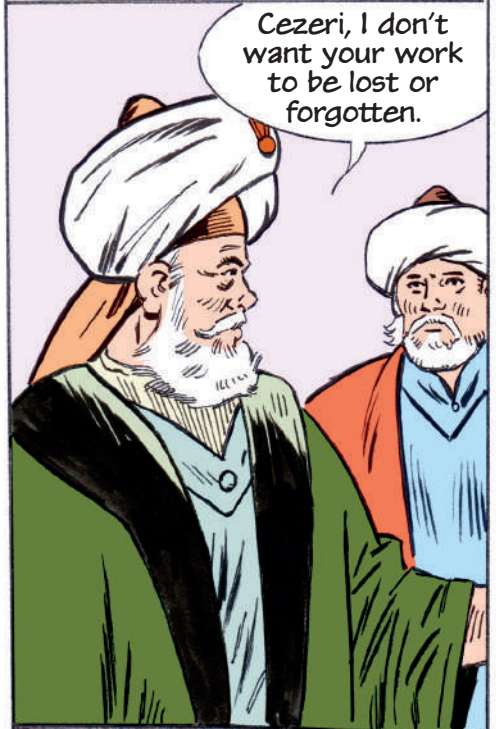
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Cezeri went to his workshop and started working. He made many sketches. He thought about every detail and calculated the costs and expenses.

50 After getting Sultan Nasiruddin Mahmud's approval, he started building the bridge.

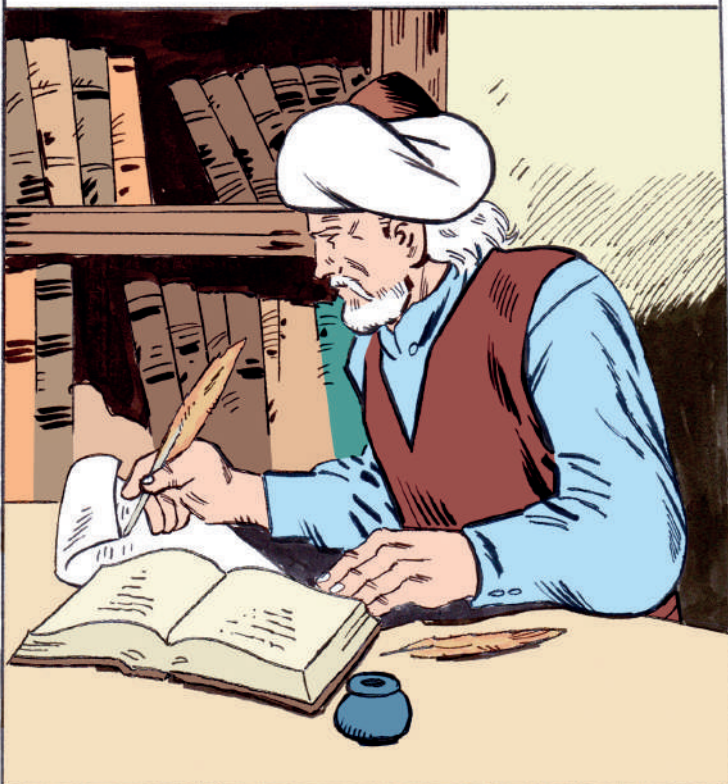


51 He completed the construction of the bridge on time and perfectly. One day, the Sultan called him...



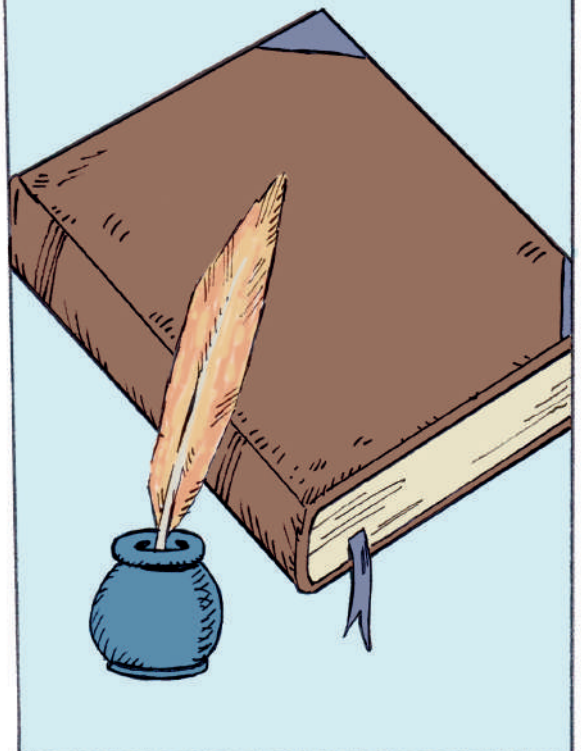
The Sultan asked Cezeri to write a book about his work.

52 What a great idea! Cezeri started writing about all his work in detail.

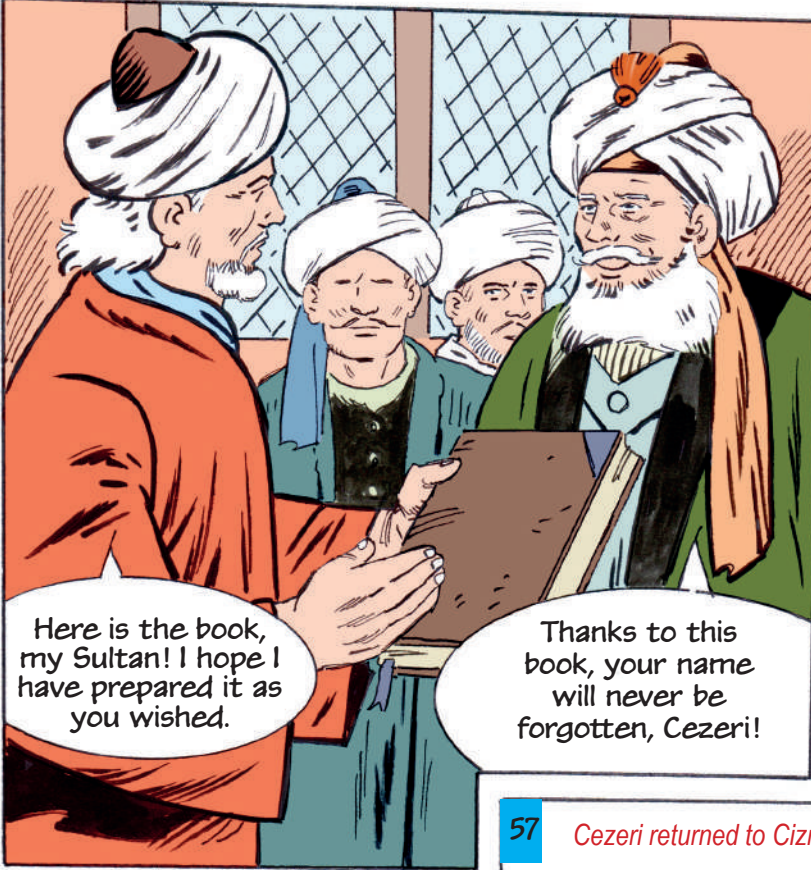


53

When he finished the book, he titled it "El-Hiyel". The book was about applications for machine making and many useful ideas.



54 *Cezeri presented his book Nasiruddin Mahmud. The Sultan, who loved science, was very happy.*



Here is the book, my Sultan! I hope I have prepared it as you wished.

Thanks to this book, your name will never be forgotten, Cezeri!

55 *Later, Sultan Nasiruddin got sick and died.*

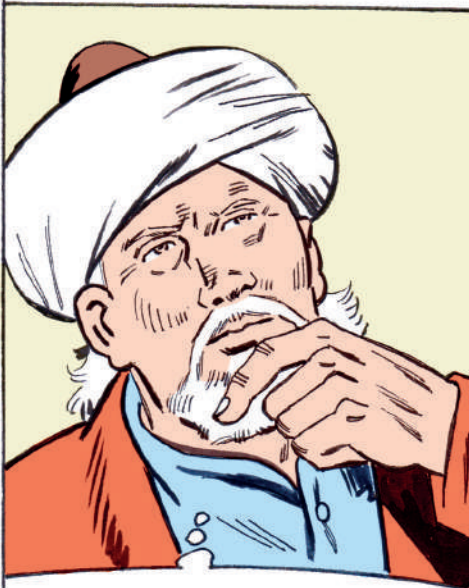


I am afraid this country won't last long after me. May God help us.

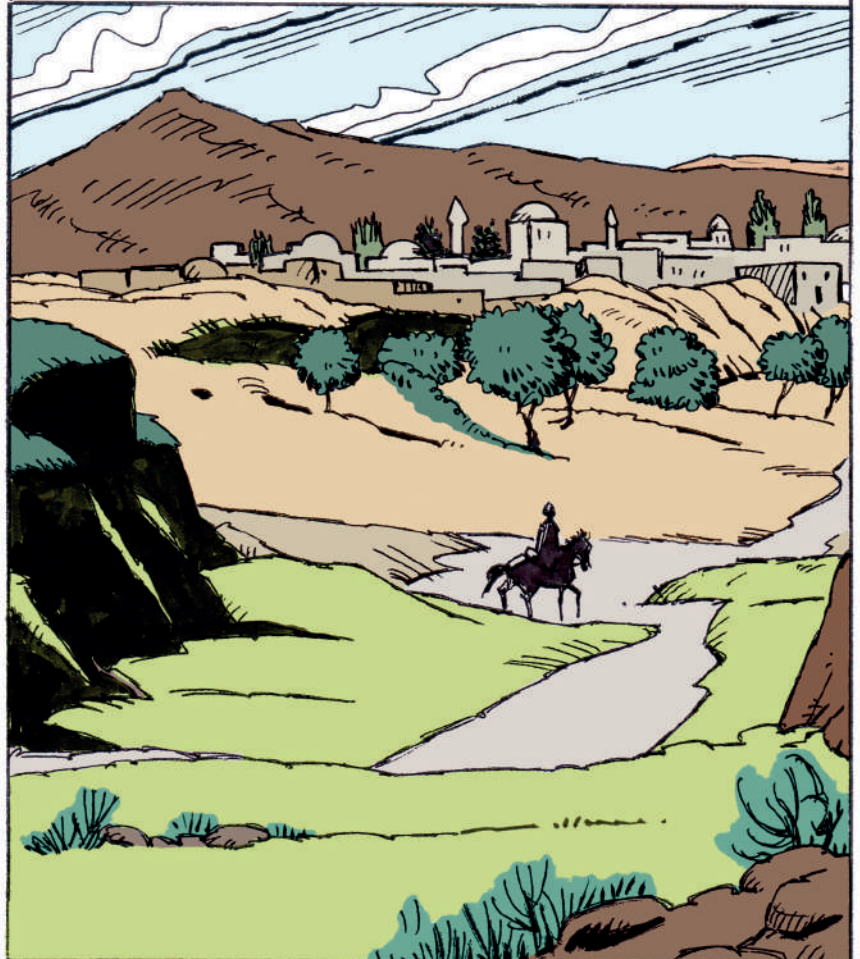
God is great, my Sultan!

57 *Cezeri returned to Cizre. He continued his work there.*

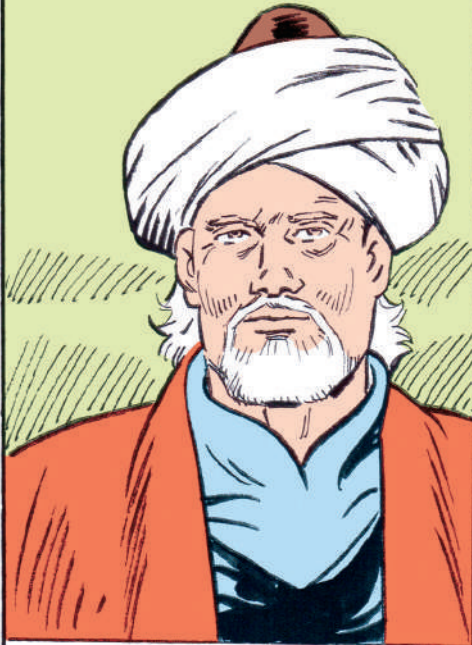
56 *After the Sultan's death, the Ayyubid State took over the city.*



Should I continue my studies in other countries?

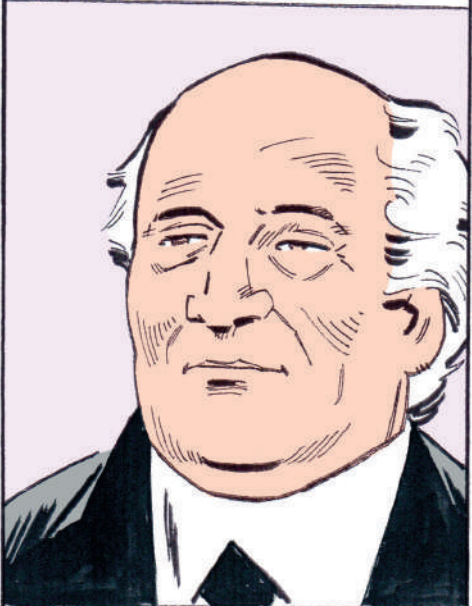


58 *Cezeri passed away in 1206. He worked non-stop until the end of his life.*



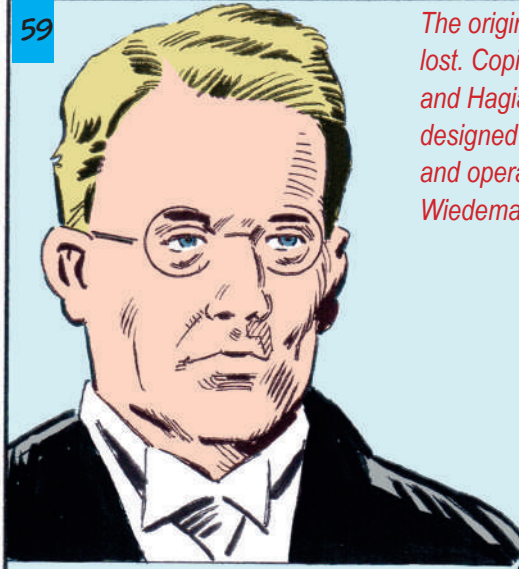
What did he leave behind? Many mechanical devices that make life easier. Bloodletting tools, angle measurers, robots, ablution machines, clocks, secret locks, water machines, thermos, various toys for children... Moreover, Cezeri is known as the world's first 'cybernetic' scholar.

60 *Turkish scientist Prof. Dr. Fuat Sezgin introduced Cezeri's works in the "Museum of the History of Science and Technology in Islam".*



Fuat Sezgin, Turkish Scientist (1924-2018)

59



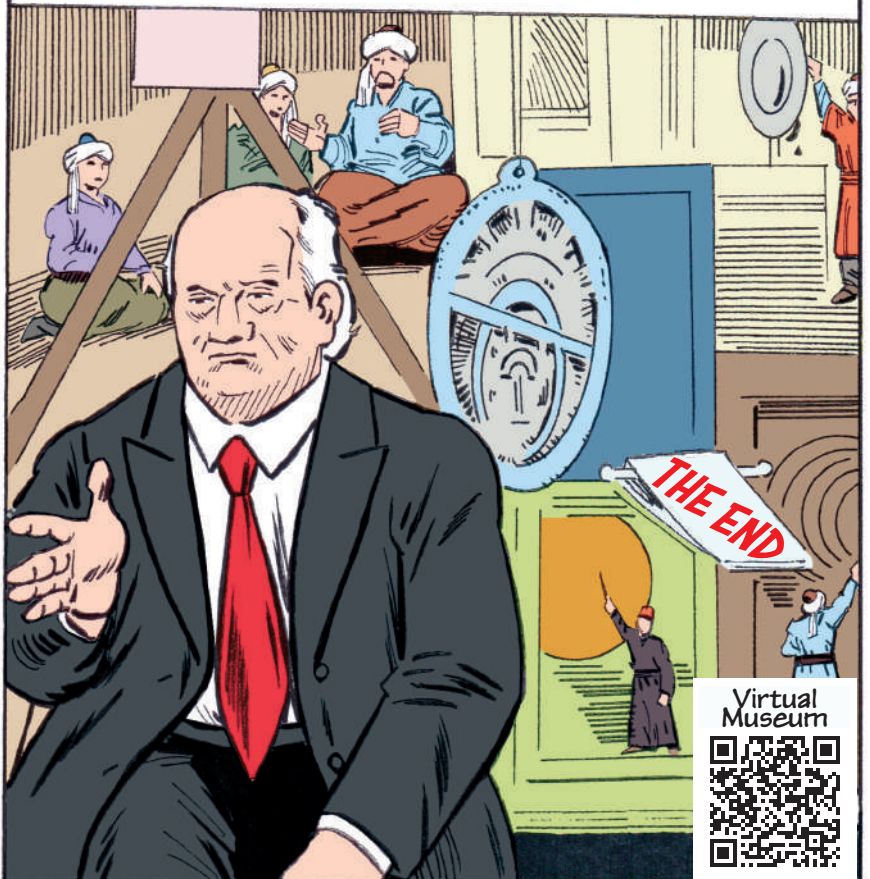
The original copy of Cezeri's book is lost. Copies are in the Topkapi Palace and Hagia Sophia Library. The devices designed by Cezeri were reproduced and operated by German professor Dr. Wiedemann.

Cezeri's book 'El-Hiyel' was translated into English by Donald R. Hill in 1974.



61

Some of Cezeri's devices are still on display in this museum.





T.C. MİLLÎ EĐİTİM BAKANLIĐI
TEMEL EĐİTİM GENEL MÜDÜRLÜĐÜ

