

Green Jobs

Opportunities & Challenges for Bangladesh as a Developing Nation

PRESENTATION

by

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What Green Jobs are all about....???

World wide investments in environment-friendly technologies have resulted in creation of huge new jobs / Job opportunities whose dimensions are expanding :

1) To quote Mr. Juan Somavia, Head of the Geneva based International Labour Organization (ILO), while he outlined his organization's plan for a new "Green Jobs Initiative" :

"Investments in Energy Efficiency (EE), Clean Energy Technology and in Renewable Energy (RE) have enormous potential to create productive and decent work....." This is what we are referring as "Green Jobs"

[UN / ILO Conf. : September 2007]



Present & Future Potential of Green Jobs - Global & National

2) Wide scale dissemination of Clean Energy Initiatives, including Renewable Energy, Energy Efficient Technologies and recycling based and environment-friendly Waste Management are examples of not only the 'Best Practices of Resource Management', but have a **significant positive impact on employment**

The above are the conclusions of 13 independent reports and Studies that analyze the economic and employment impacts of Clean Technologies often referred to as "Eco-efficient operations" - through use of RE, EE and/or environment-friendly interventions



“Green Energy Vs Green Jobs” - U.S. Scenario

<u>Scenarios</u>	<u>Mix of Renewable Energy</u>	<u>Total Employment</u>
←-----Horizon : by 2020-----→		
1. Scenario 1 (RPS1)	85% Biomass, 14% Wind 1% Solar PV	163,669
2. Scenario 2 (RPS2)	60% Biomass, 37% Wind 3% Solar PV	176,444
3. Scenario 3	40% Biomass, 55% Wind 5% Solar PV	188,018
4. Scenario 4	“Business-as-usual” Scenario 50% Coal + 50% Natural Gas	86,369
5. Scenario 5	20% Gas Intensive by 2020 100% natural gas	83,987

Notes : 1) RPS = Renewable Portfolio Standard

2) Comparison of estimated Employment created by meeting 20% of current U.S.Electricity demand via and expansion of fossil or renewable-based

“Green Energy Vs Green Jobs” - Bangladesh Scenario

Present & Future

<u>RE / EE Technology Intervention</u>		<u>Present Employment</u>	<u>Pot. (2020) Green Jobs</u>
1.	Solar PV - 180,000 Systems E-Component/Assembly etc.	(Grameen Shakti) 2,500	10,000
2.	Biogas Plants - 30,000 units fielded	(Trained Engrs./Skills) 5,500	25,000
3.	Improved Cook Stove (ICS) 60,000 units disseminated	1,000	20,000
4.	Other Biomass (Rice Husk Power in Rice Mills & Others)	-	20,000
5.	Energy Efficient (EE) Technologies (CFL, FTL EE Retrofit Industry)	5,000	30,000

>100,000

Green Jobs

“Green Technology Vs Green Jobs” - Bangladesh Scenario

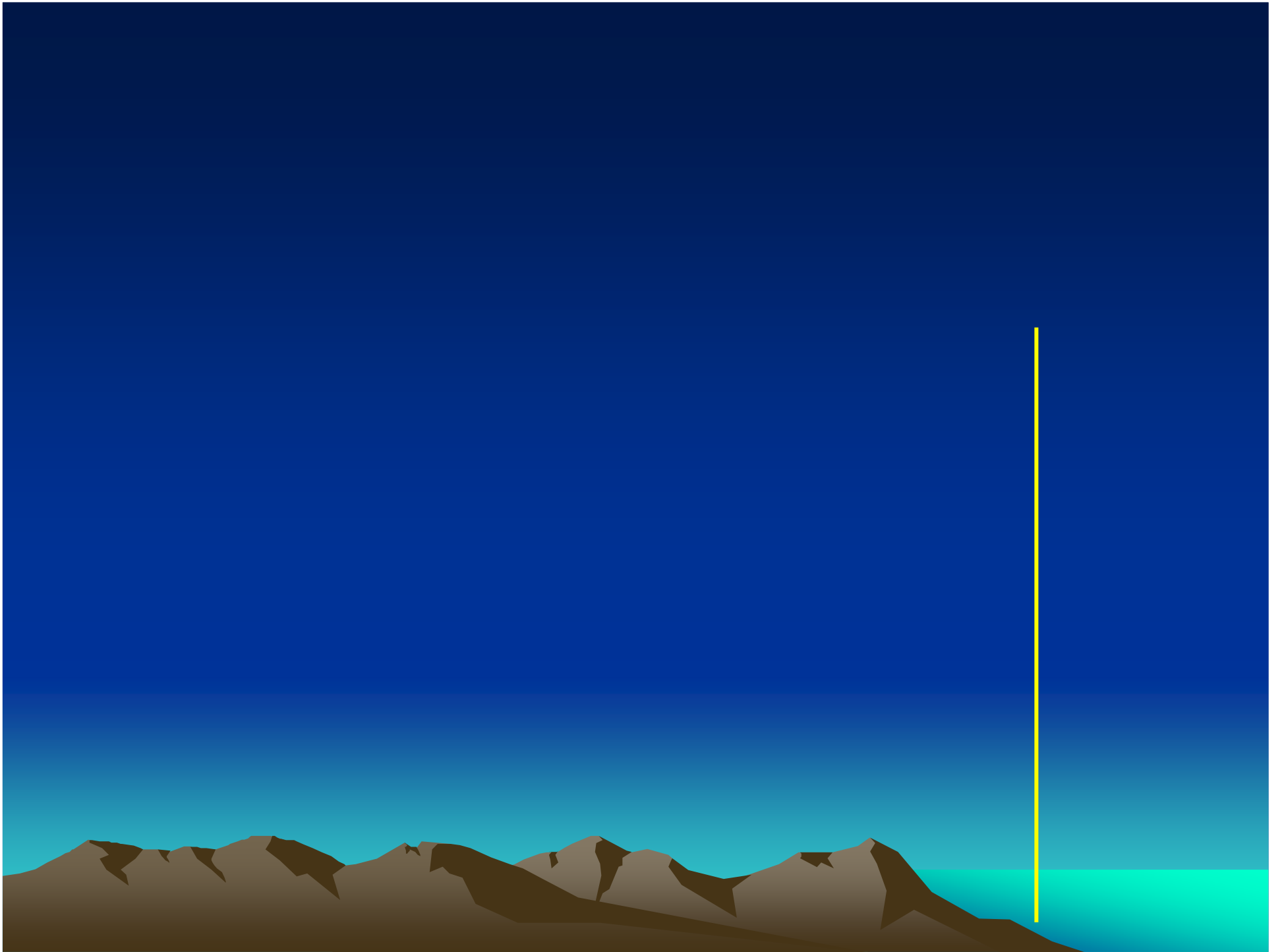
Required GoB Policy & Institutional Supports

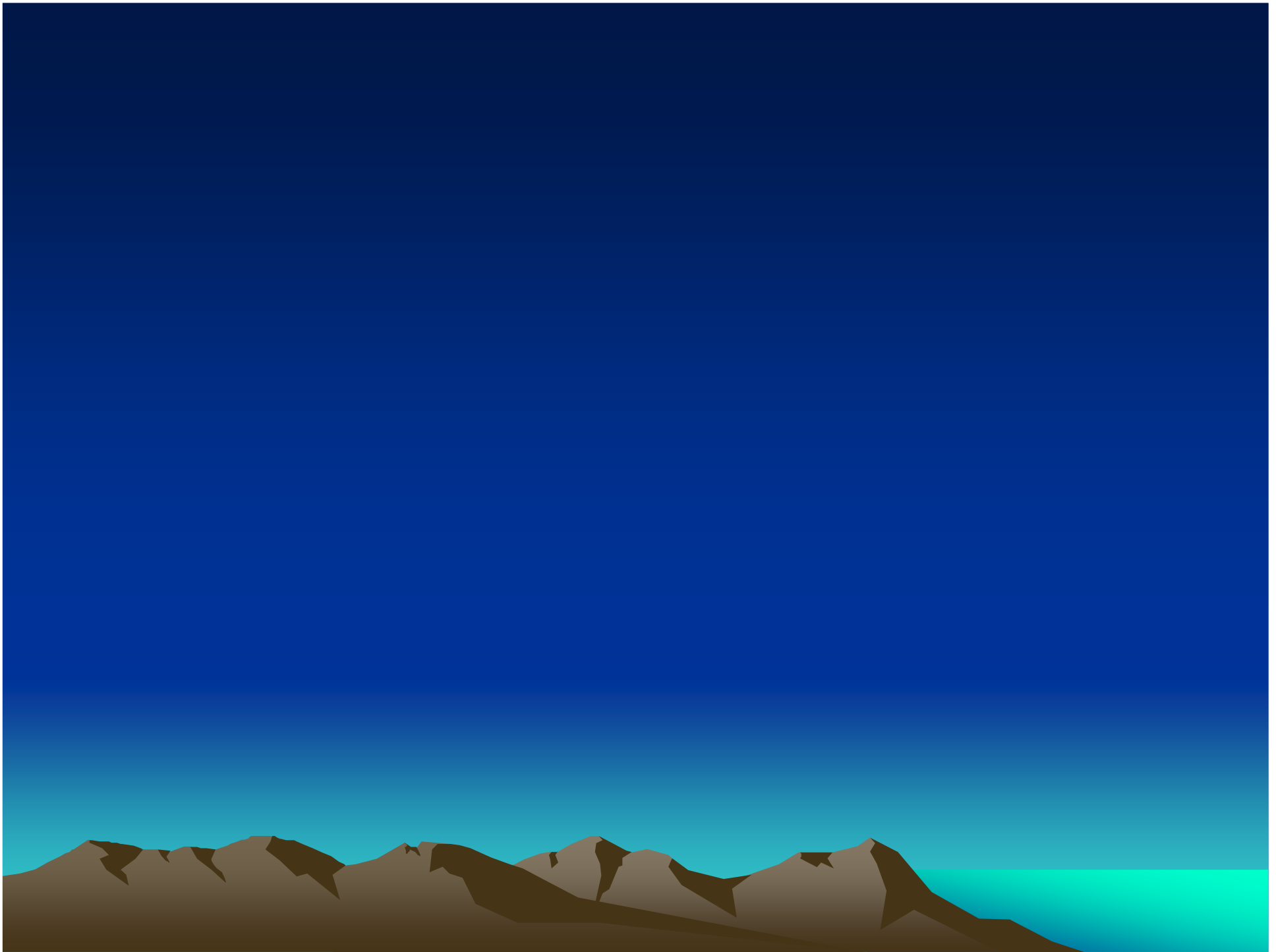
- Incorporation of ‘Green Job’ Concept in relevant **GoB Policies**
- Capacity Building (Technology, Finance & Human Resource Development, i.e Equipment / Know How /Training in Green Technologies) Examples :
 - Training in Solar (PV & Thermal), Bio-Gas/Bio-mass Technology Applications – Highly skilled, Skilled Semi-skilled (Specialized professionals/practitioners i.e. RE / Environmental Specialists, Energy Auditors Training (certified), Bio-gas Technicians & Masons EE Equipment assembly, EE Equipment Testing etc.
- Fiscal Incentives for Entrepreneurs who create Green Jobs
- Co-operation amongst GoB, ILO and Other International Development Partners (e.g. GTZ, USAID, UNDP etc.)

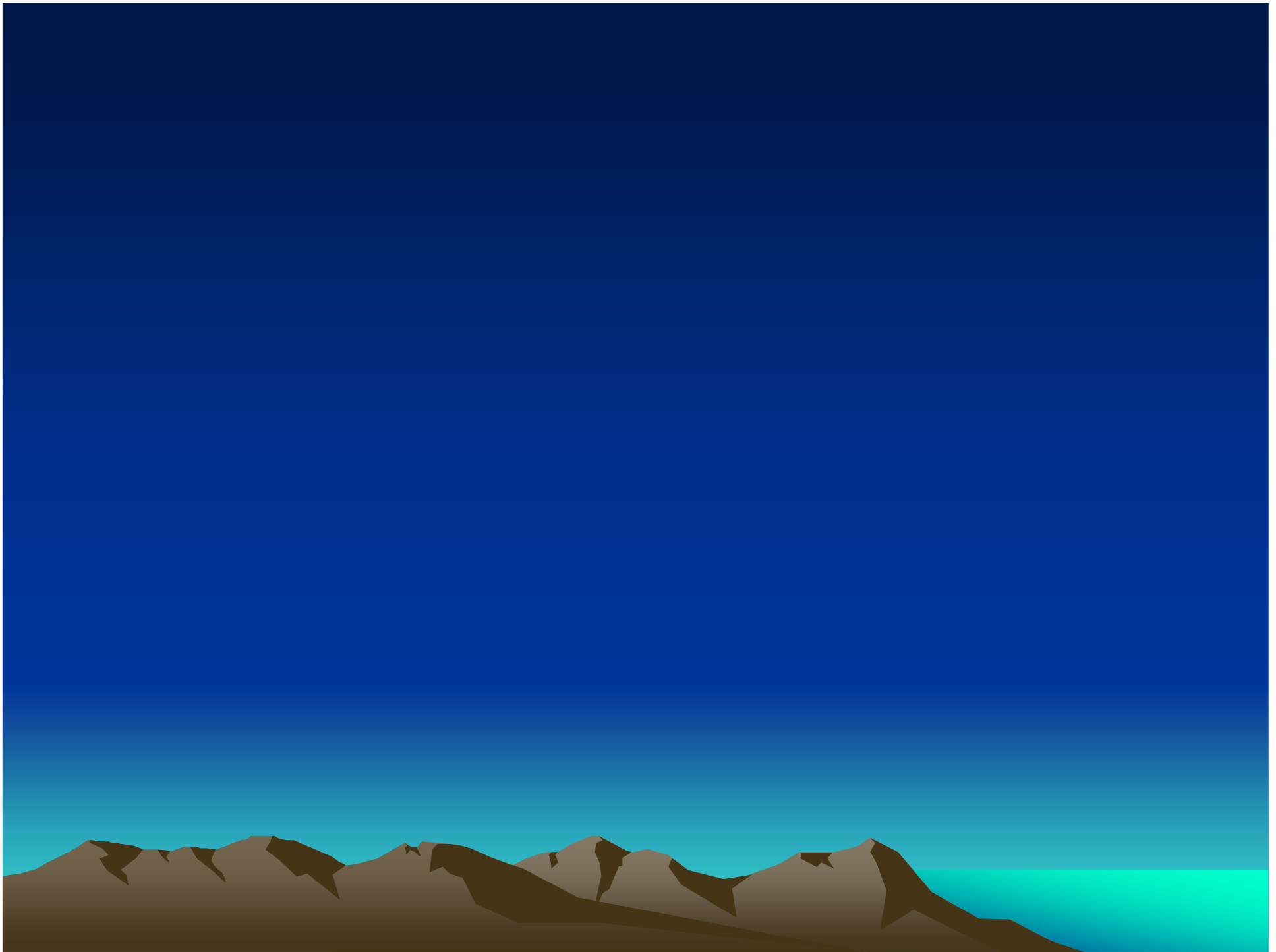


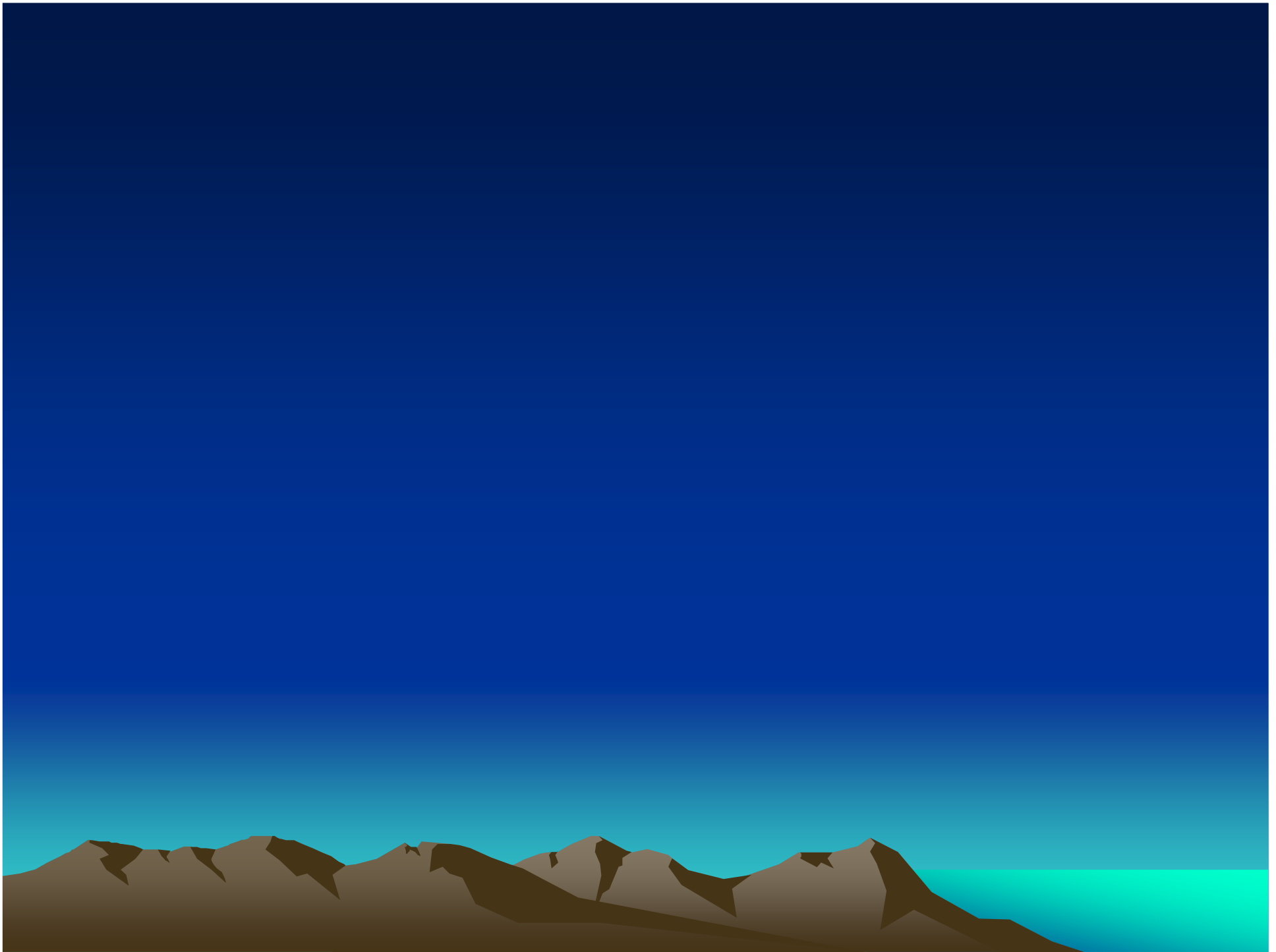
Thank you



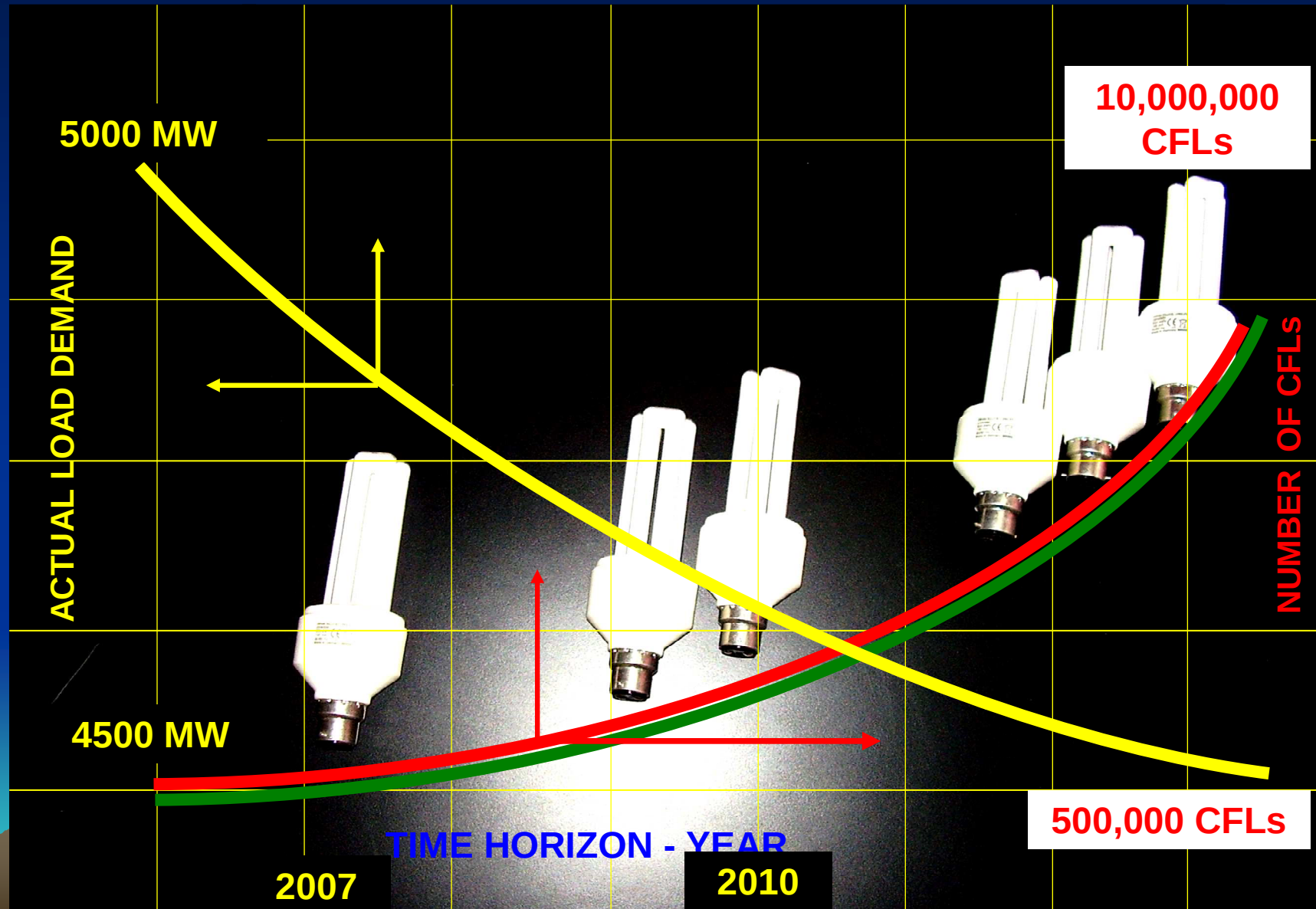


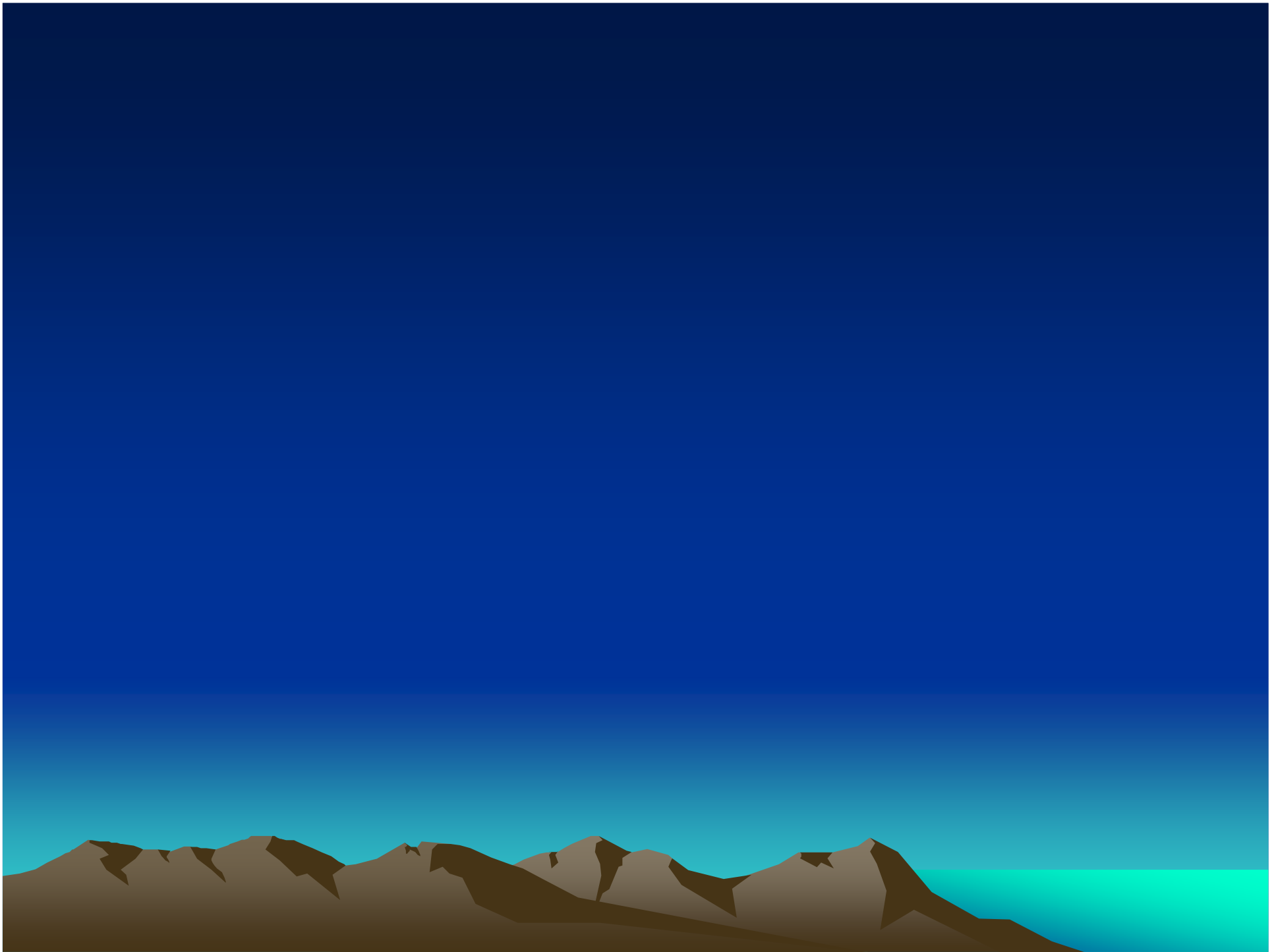


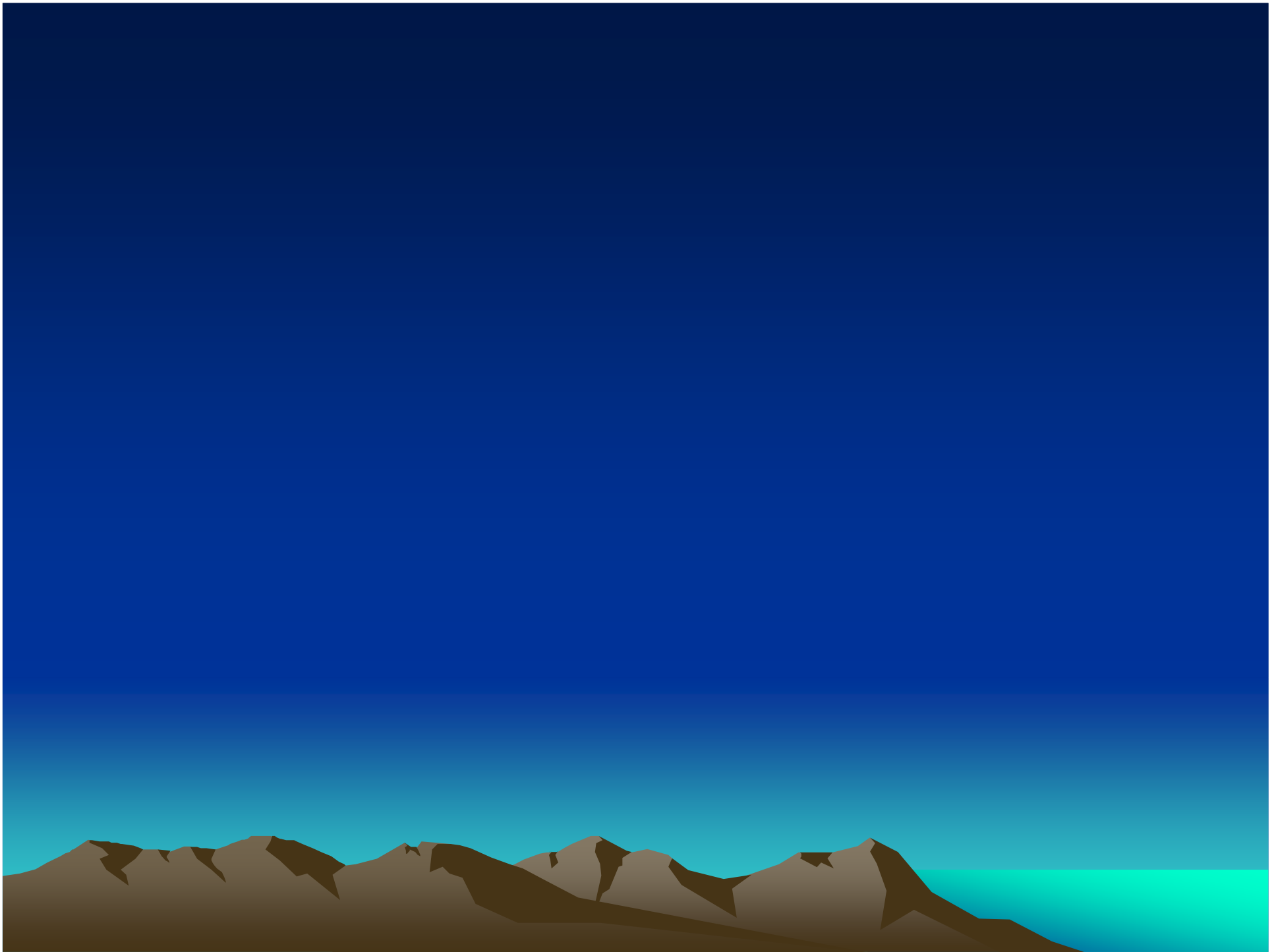


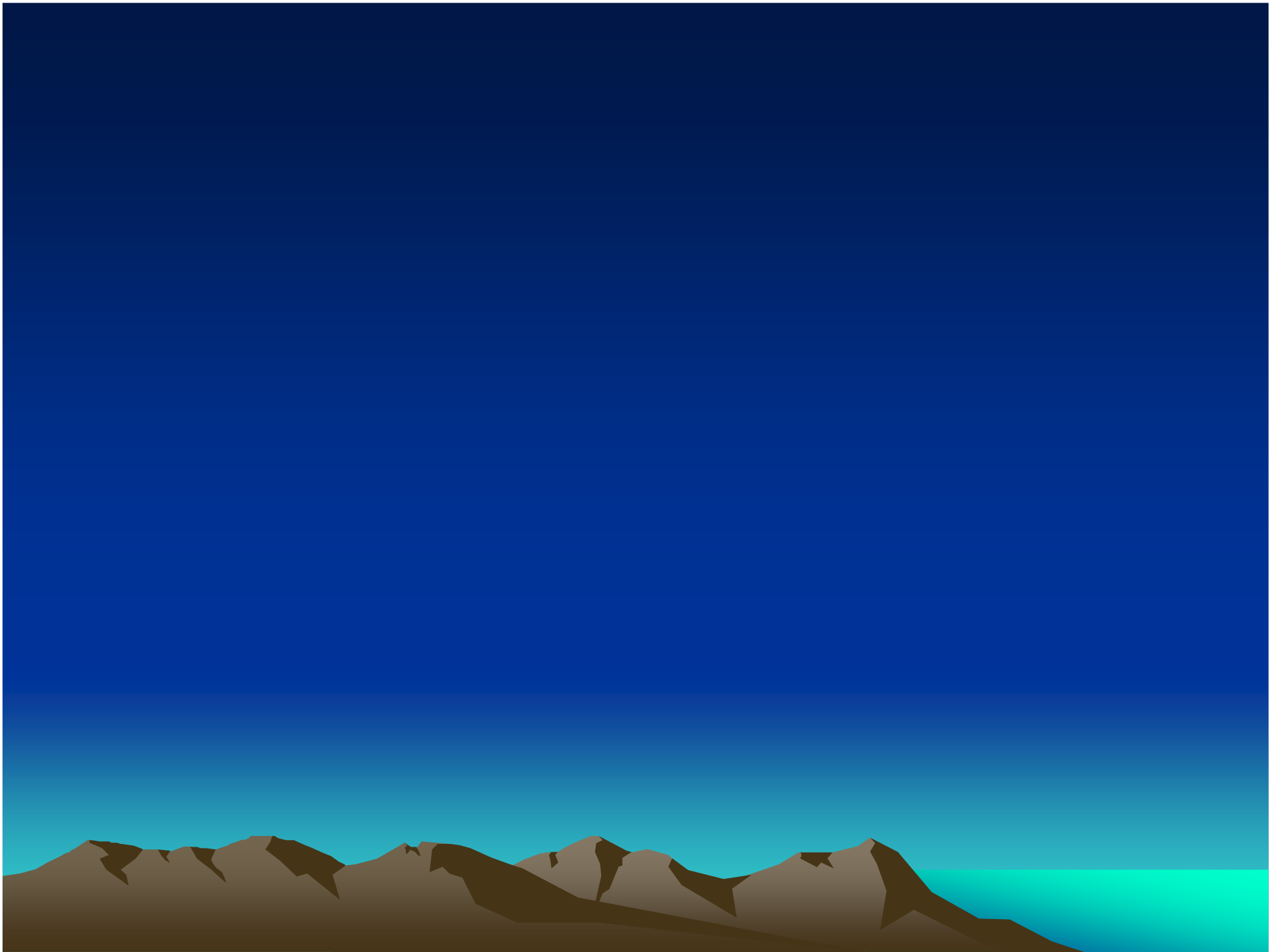


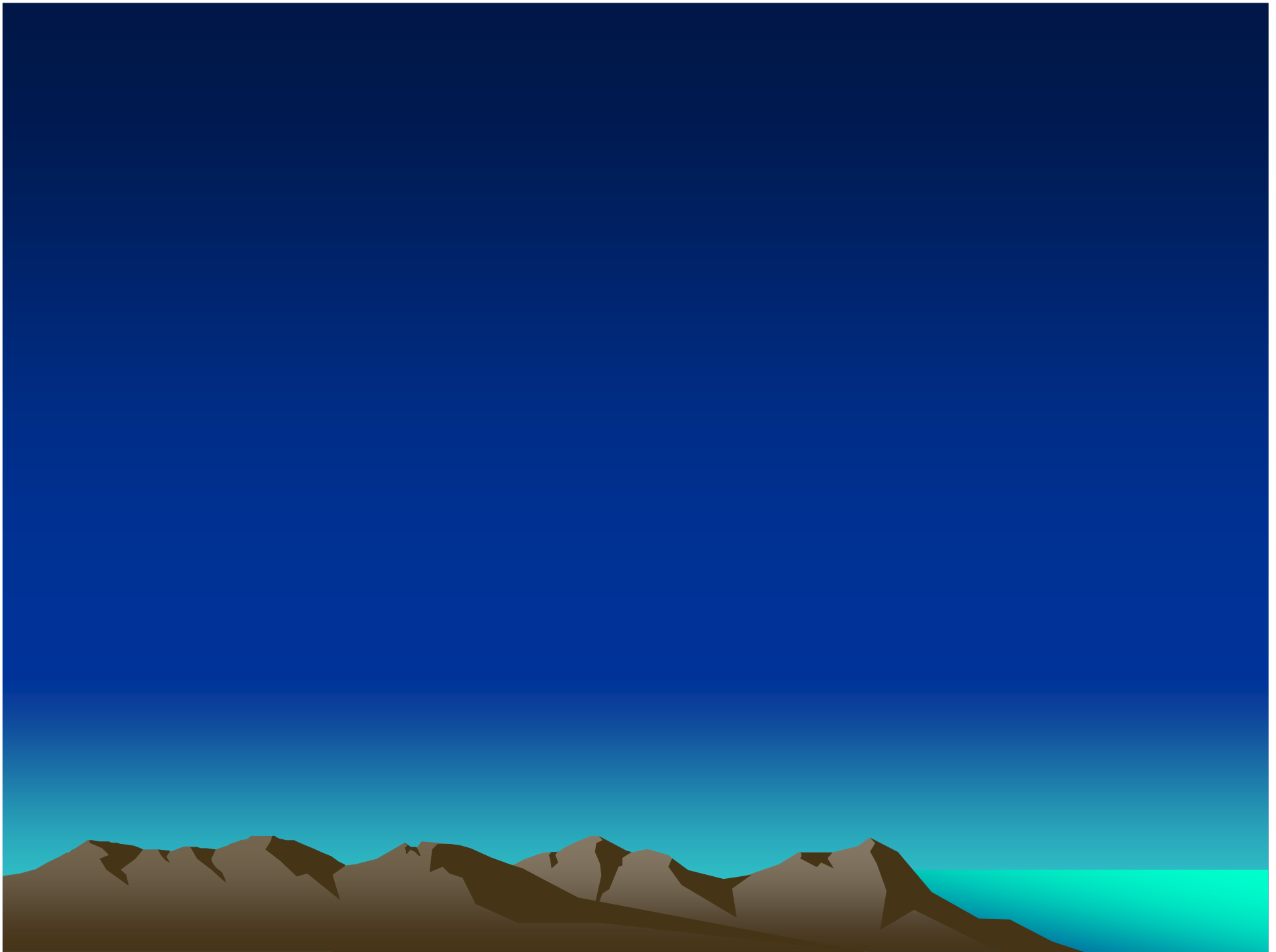
“HAPPY GROWTH : Mr. CFL !!”.....
“Addios Amigos...M/S Incandescent & Load-shedding !!!”

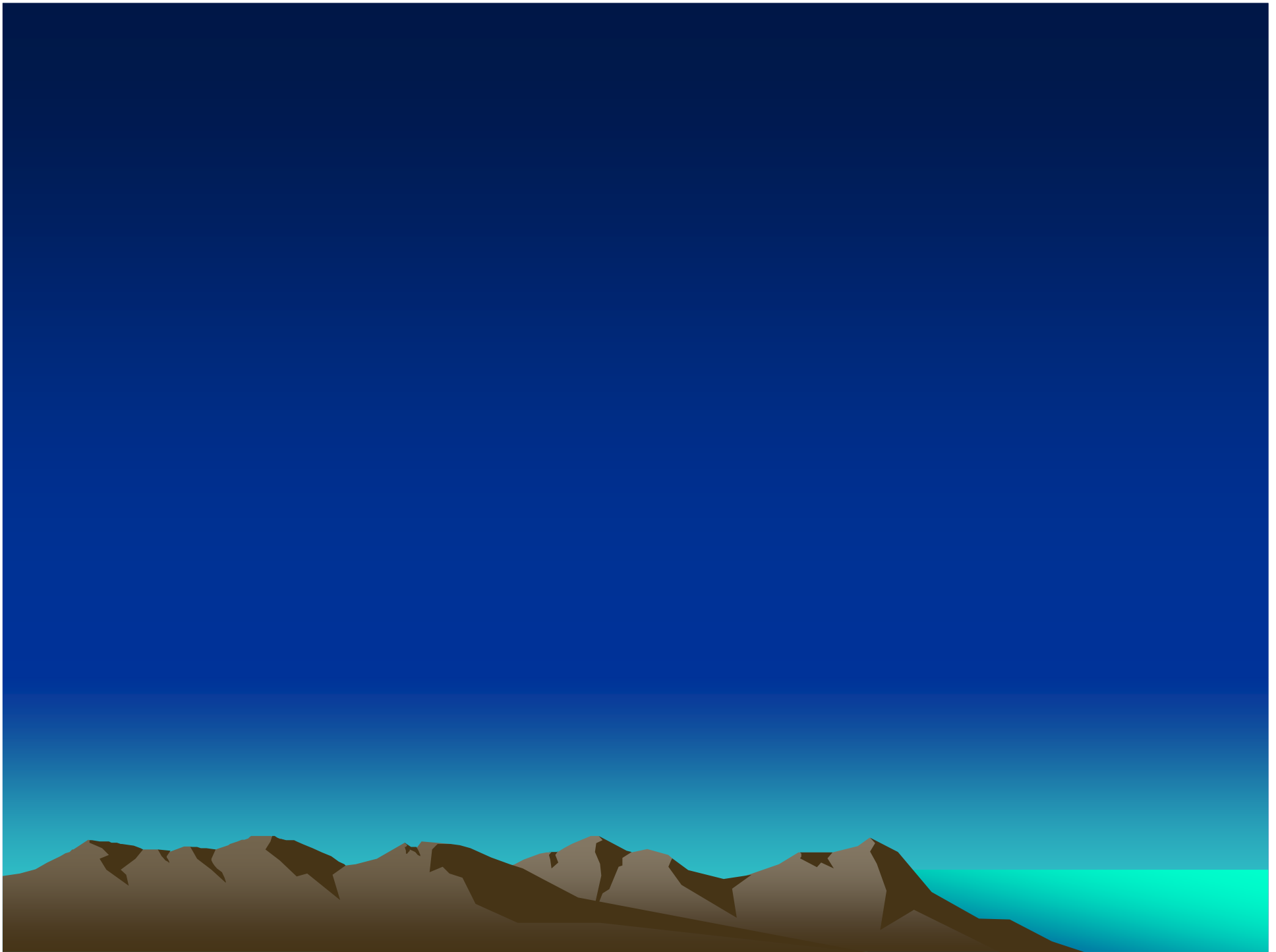


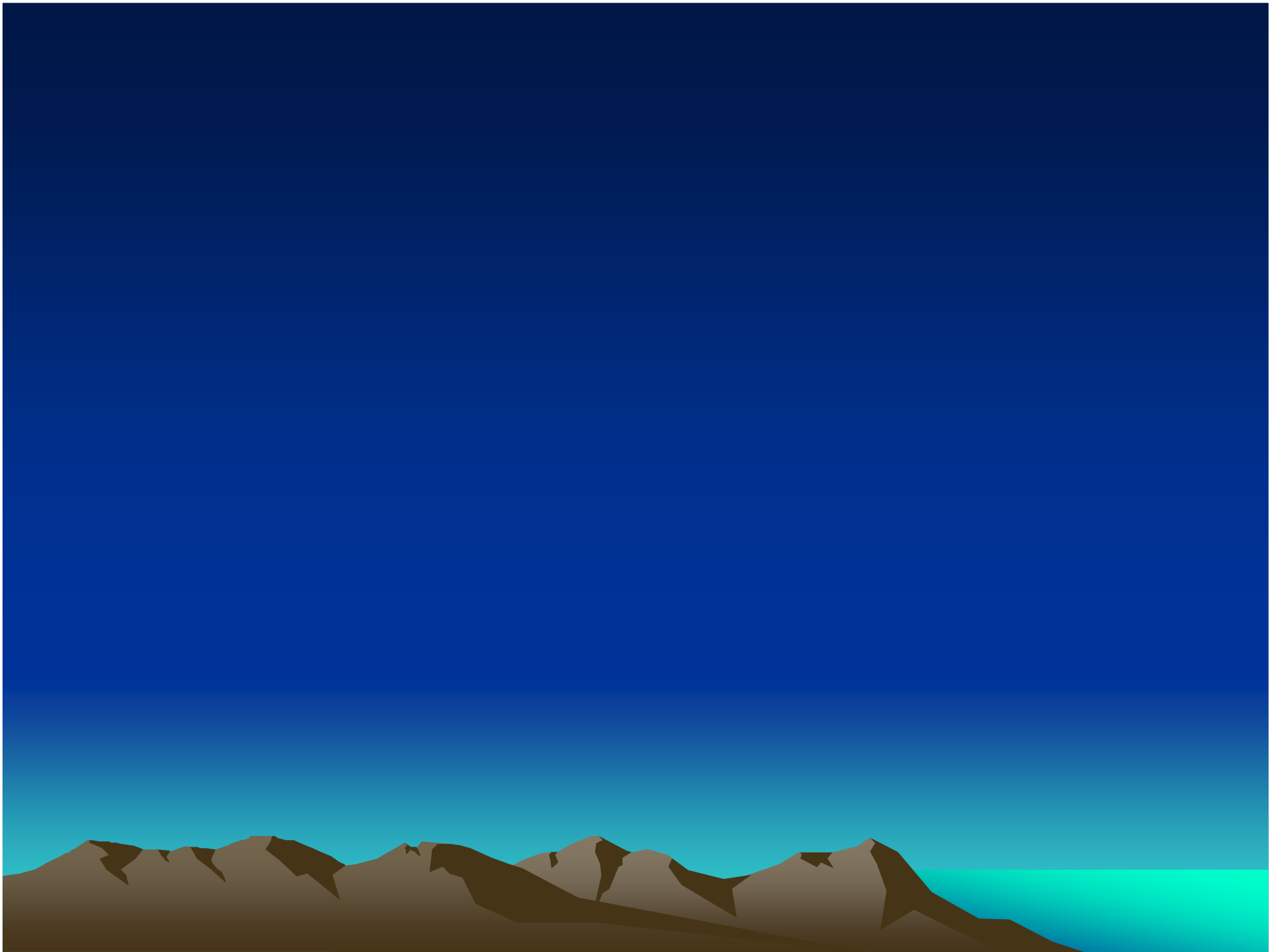






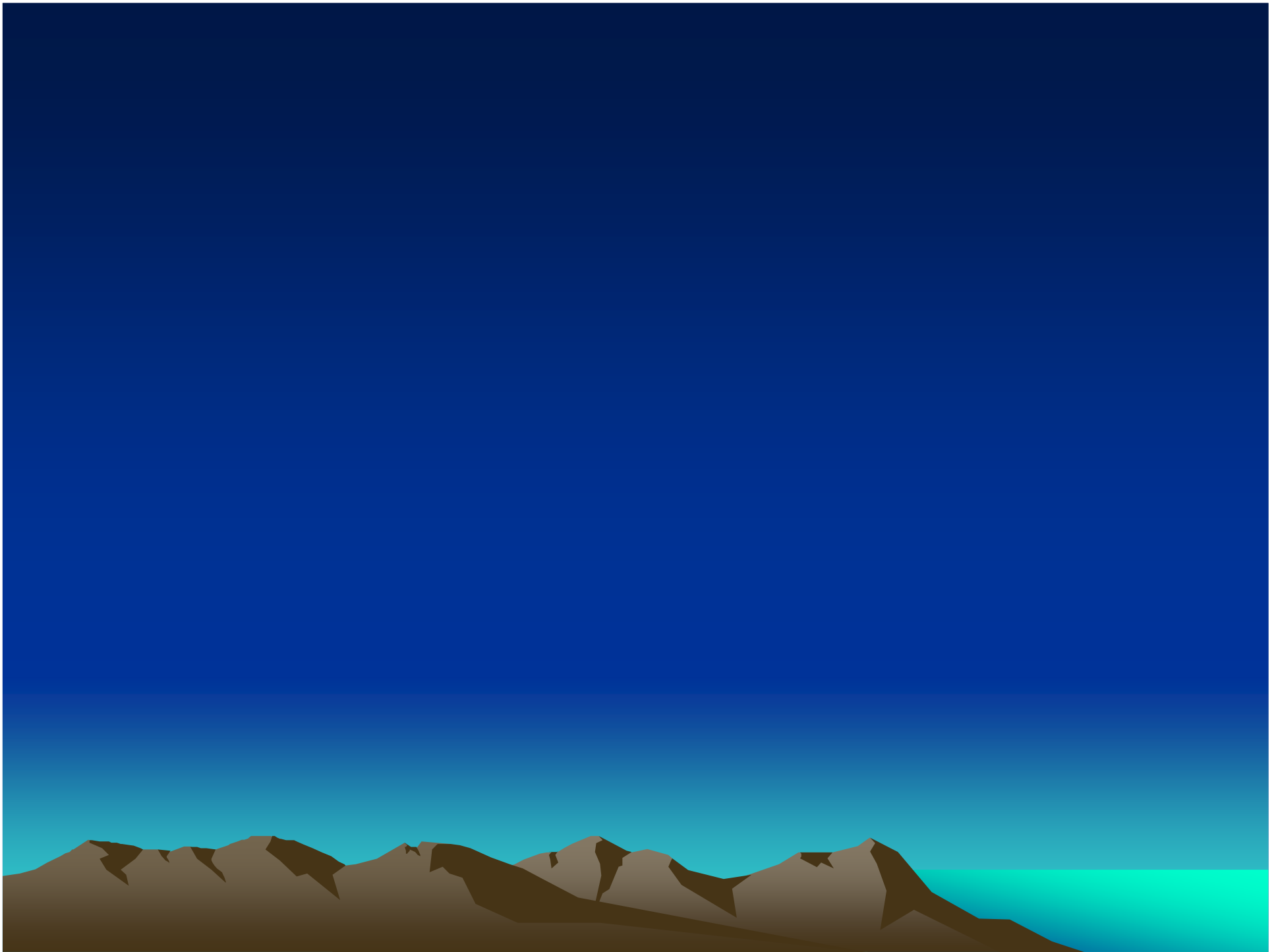


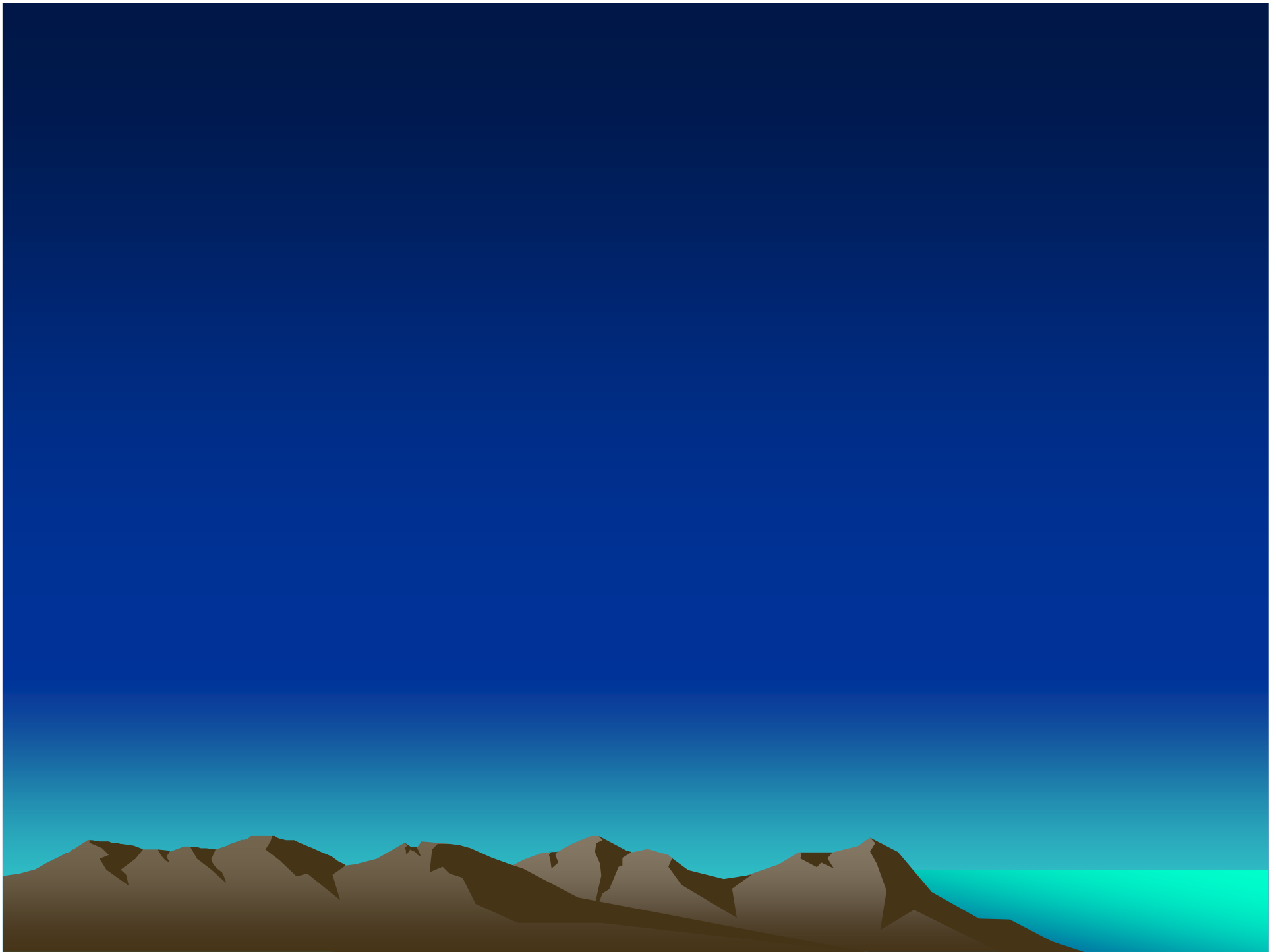


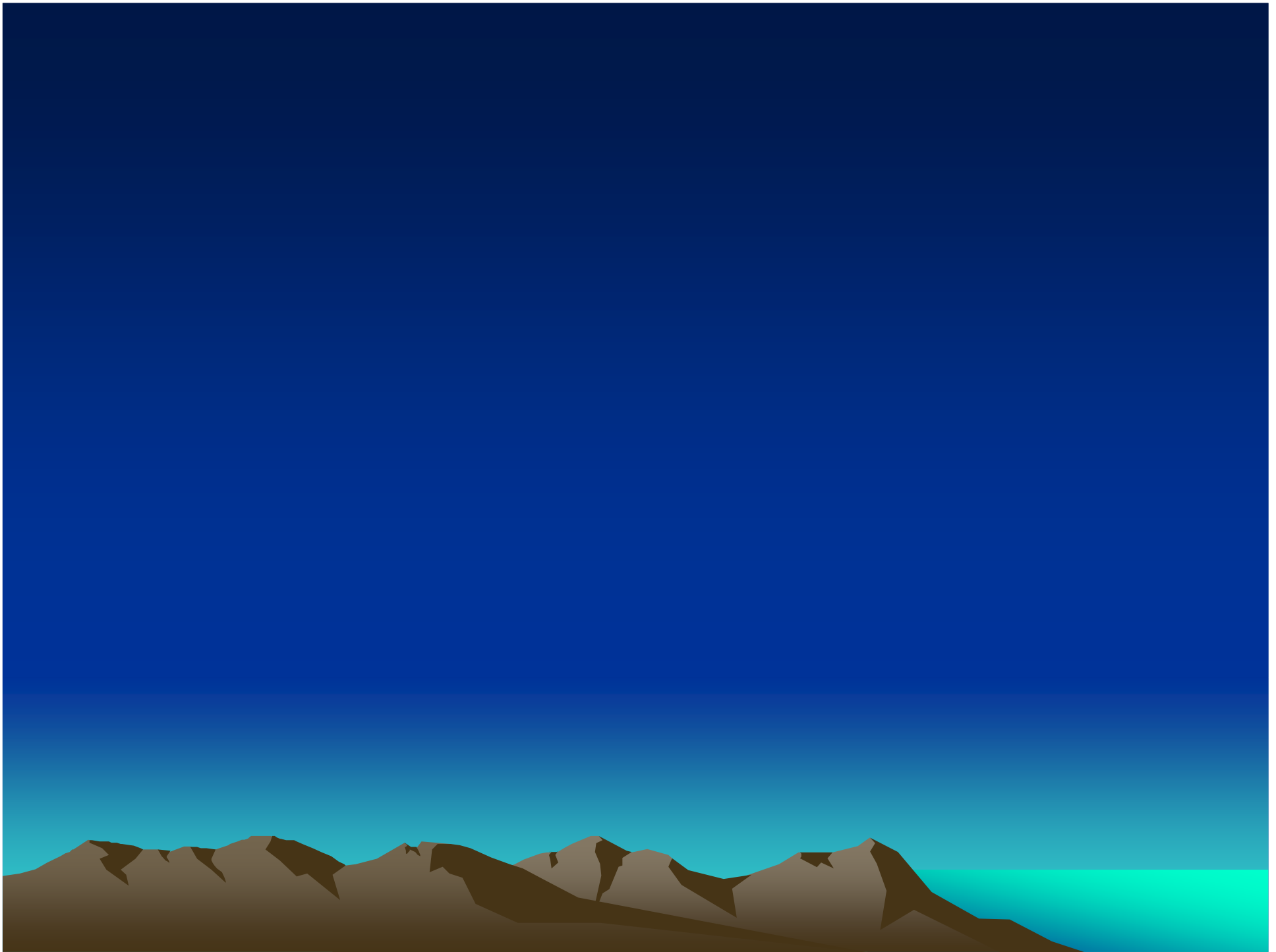


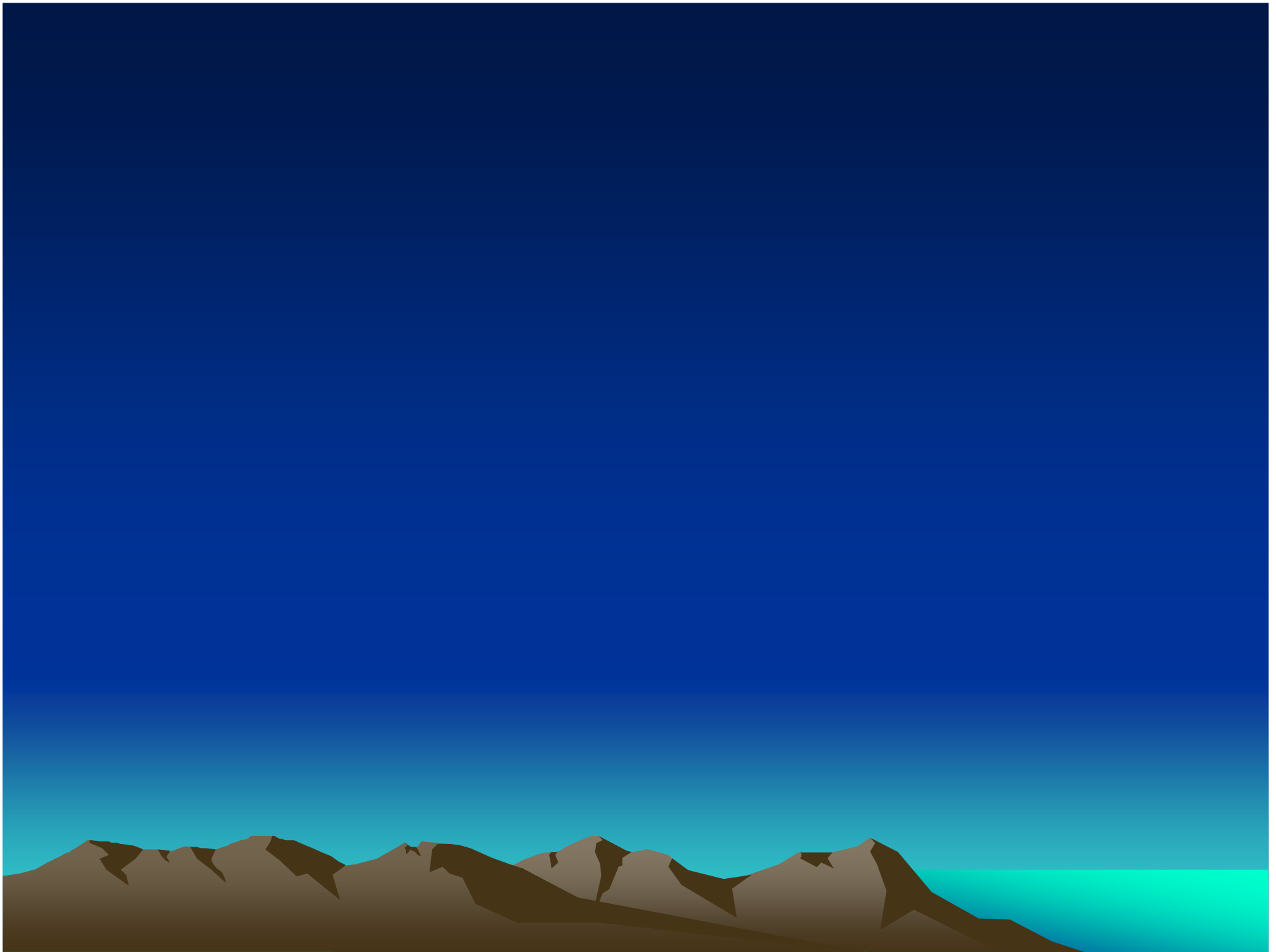
Steel Making

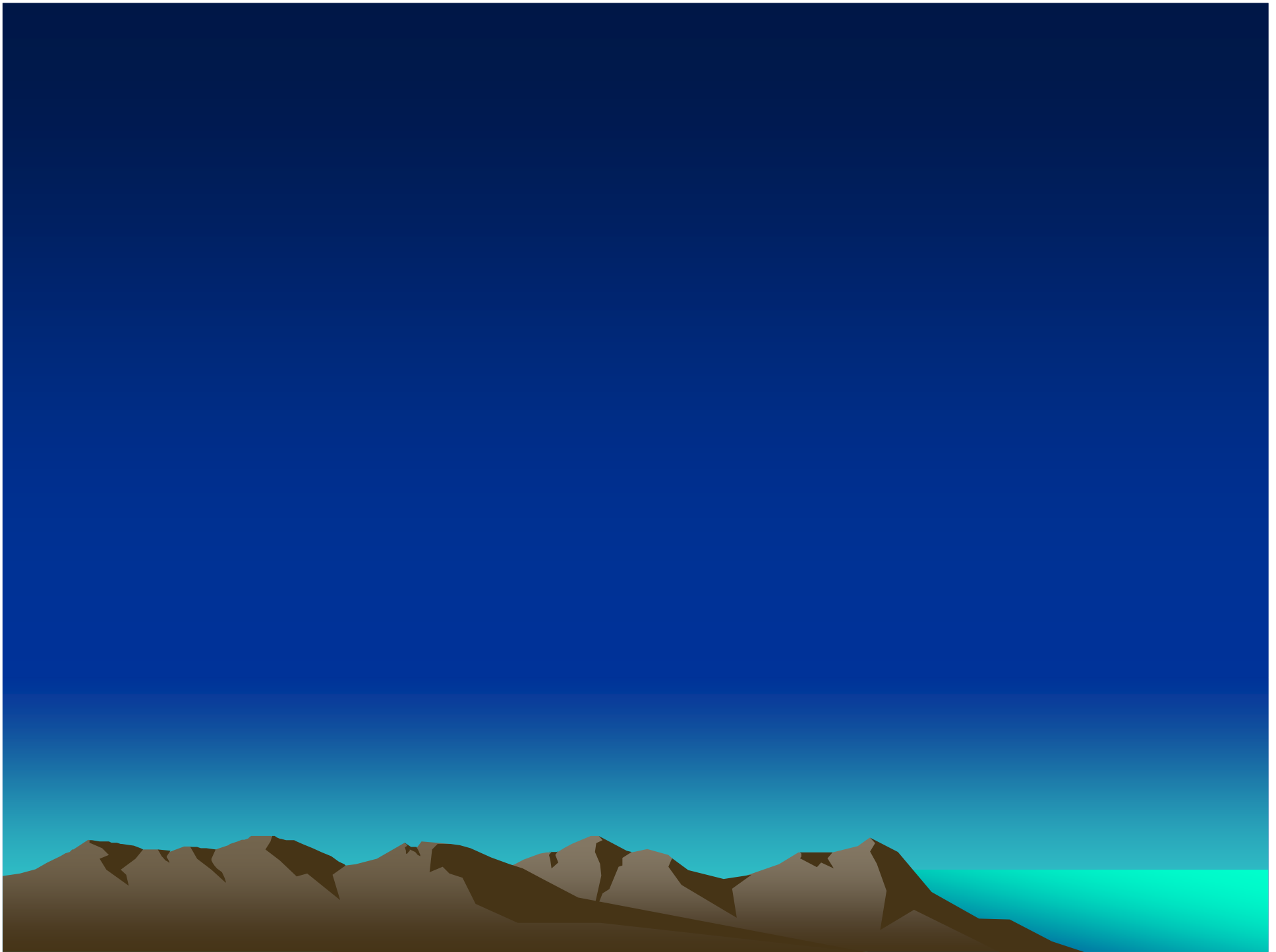


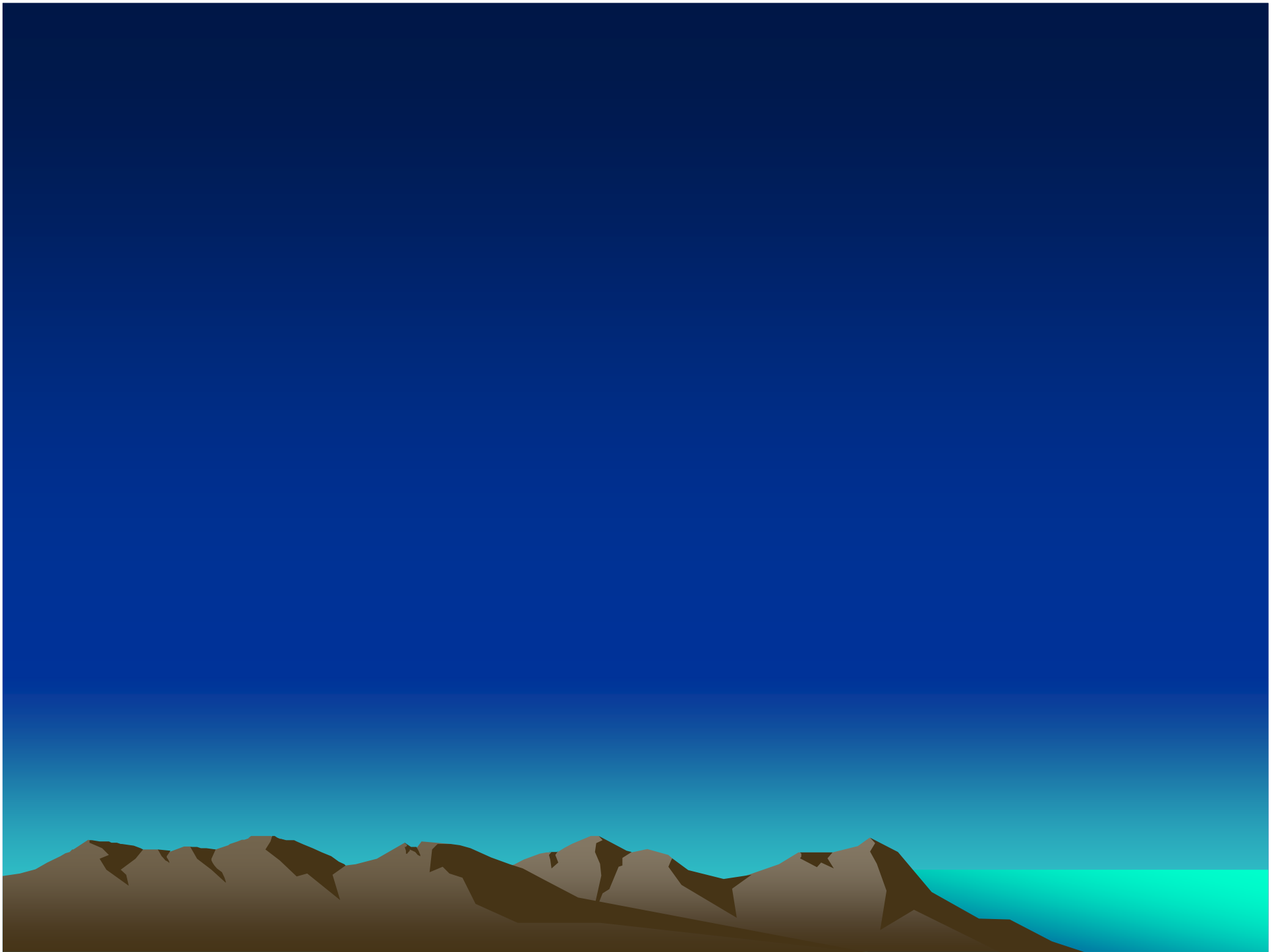


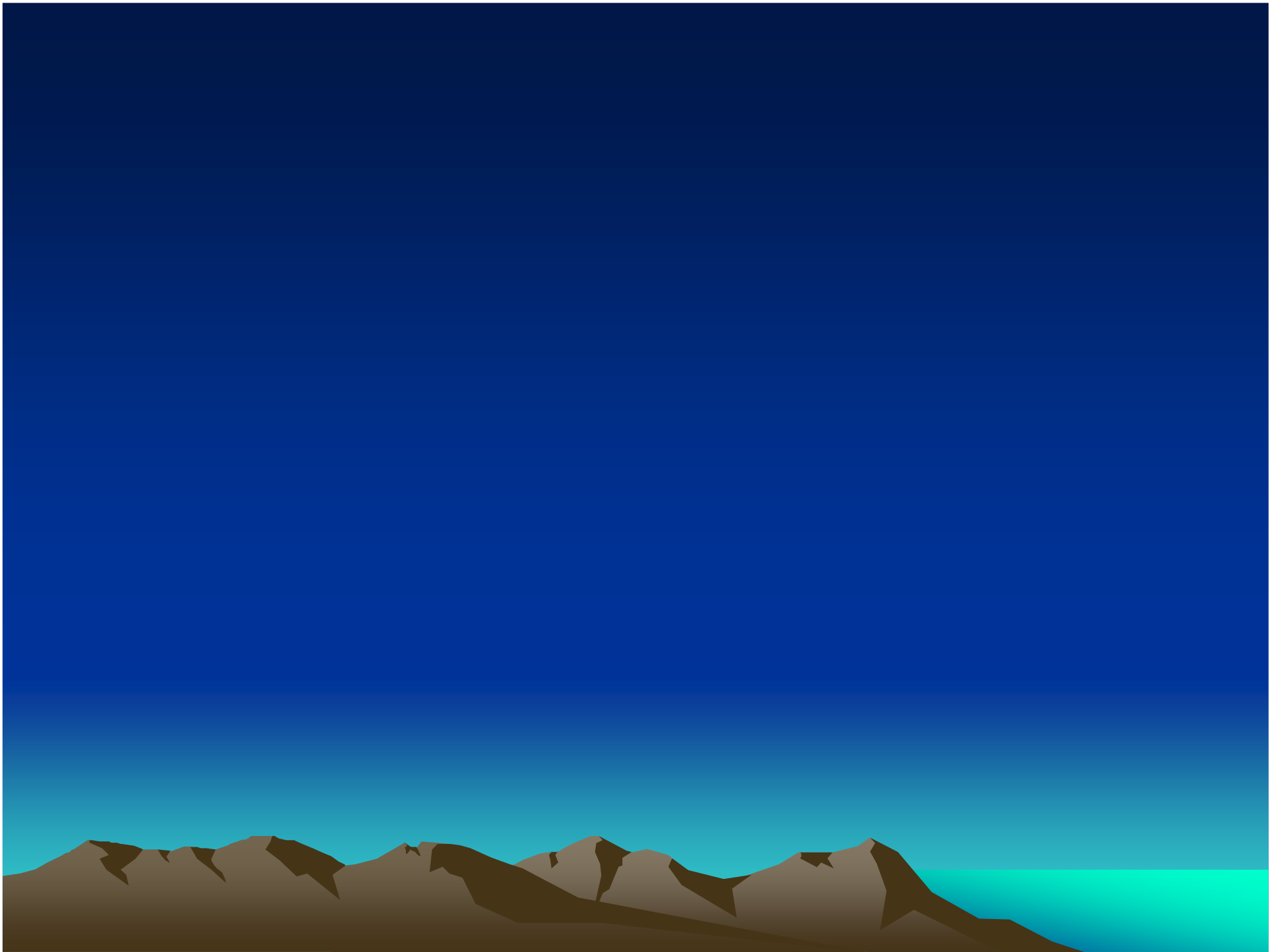


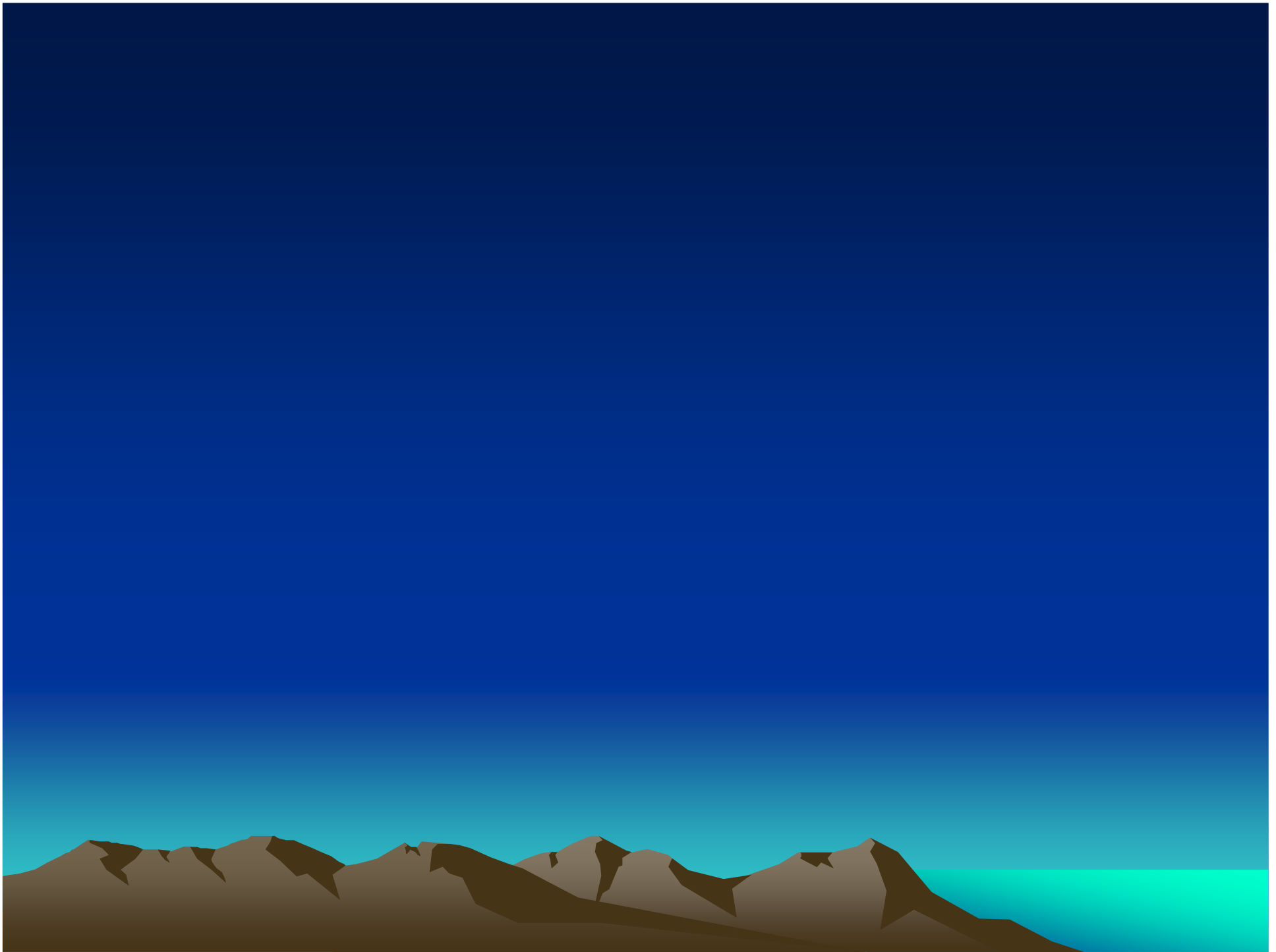


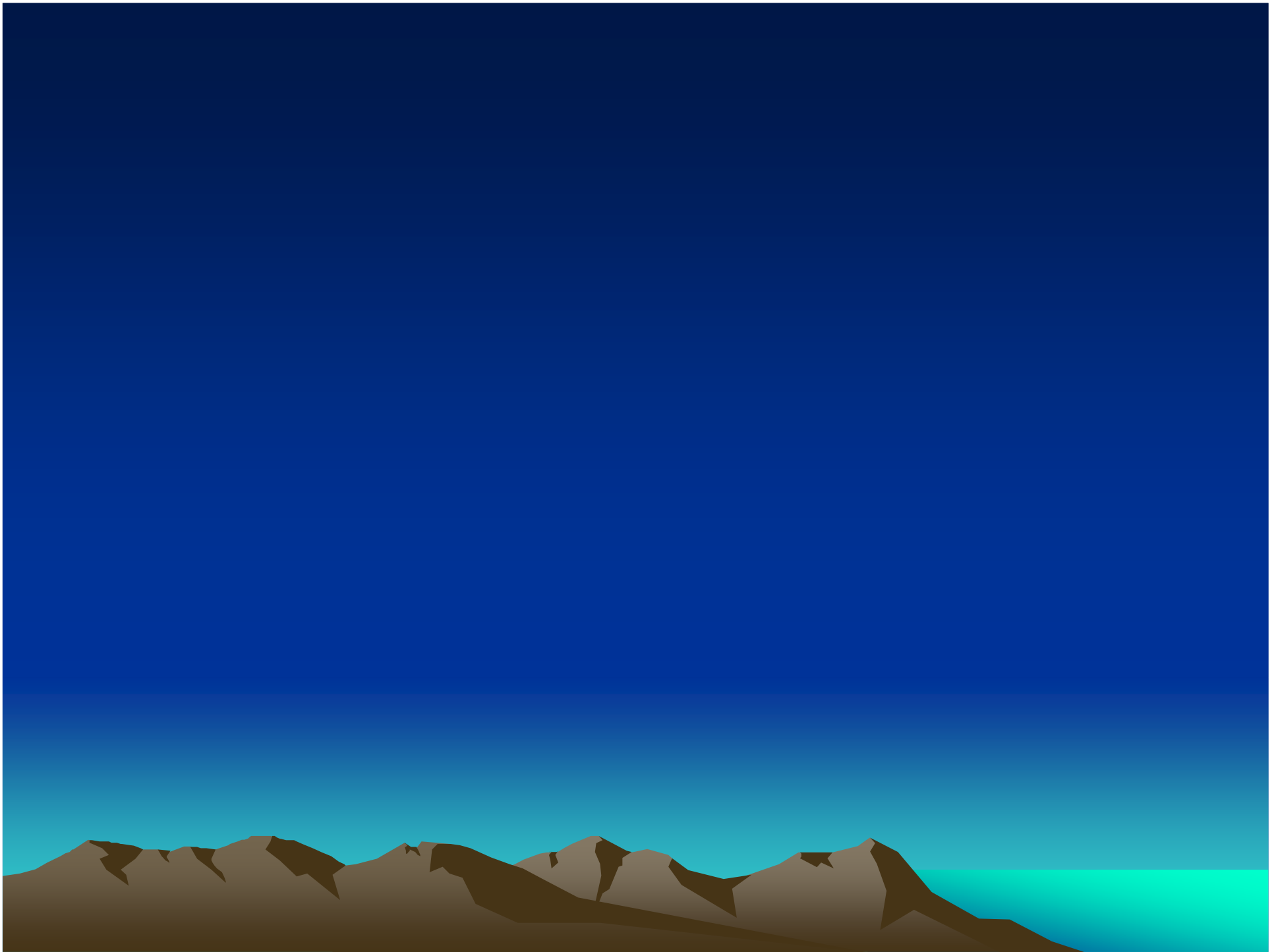


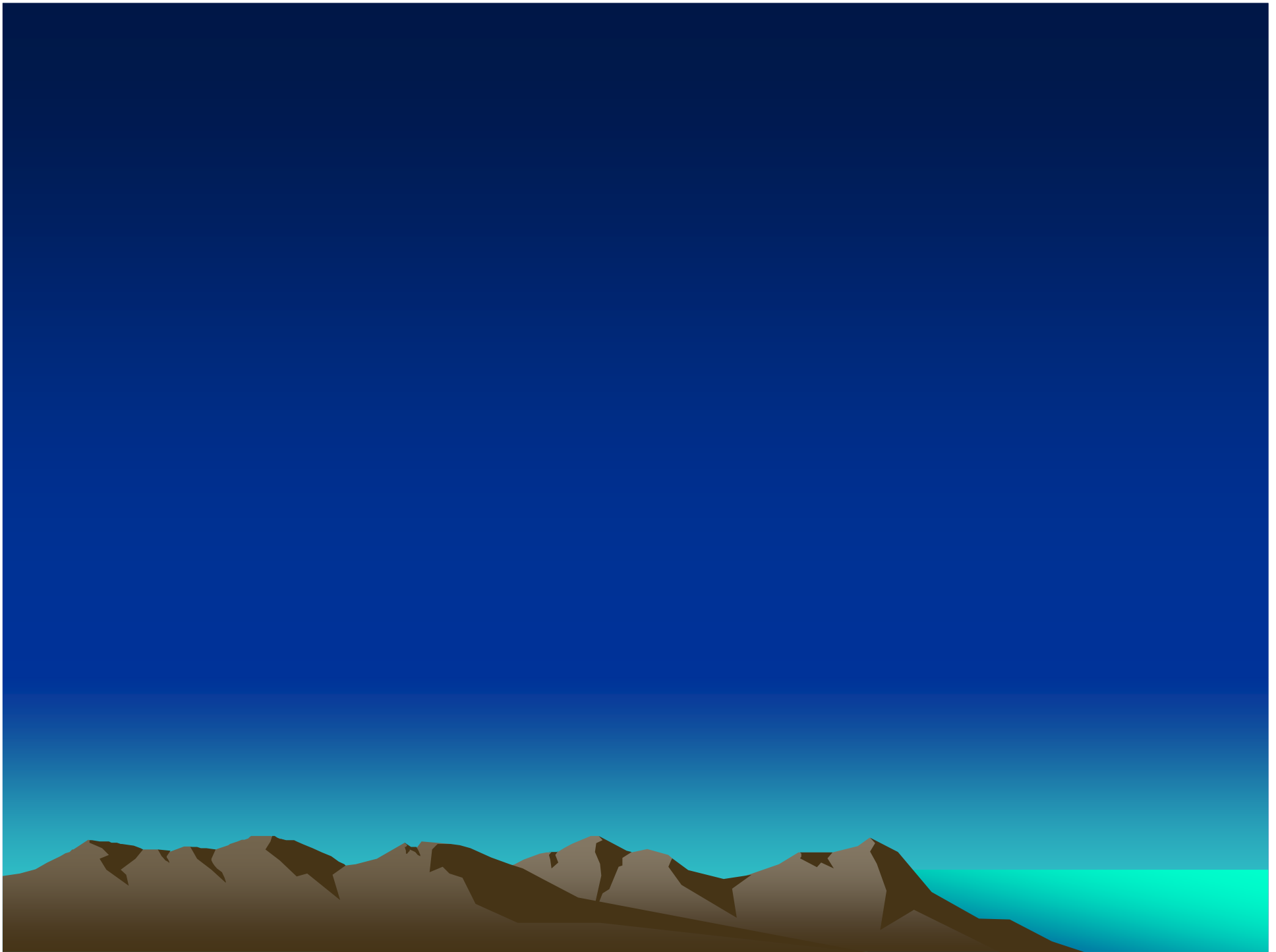






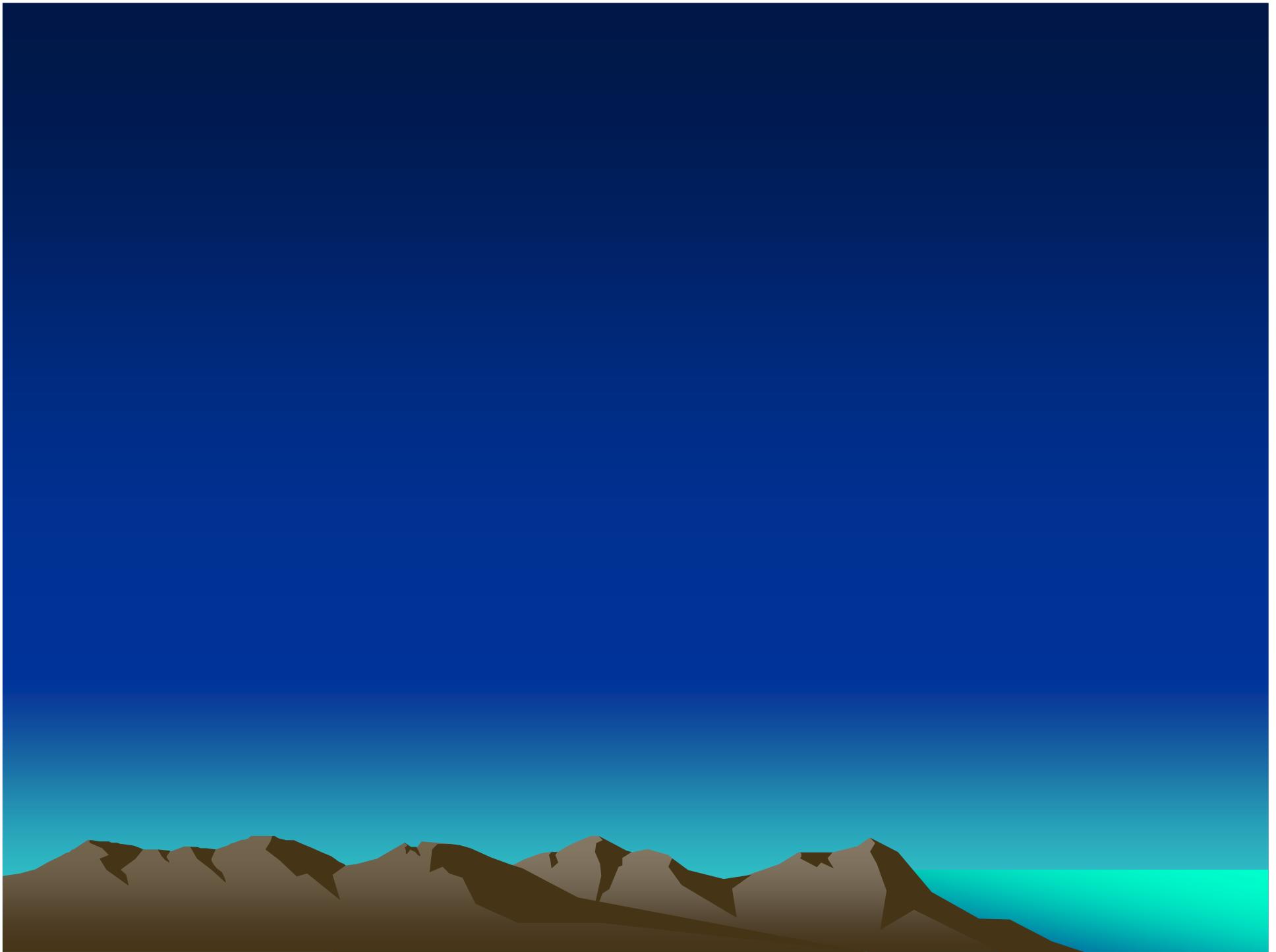


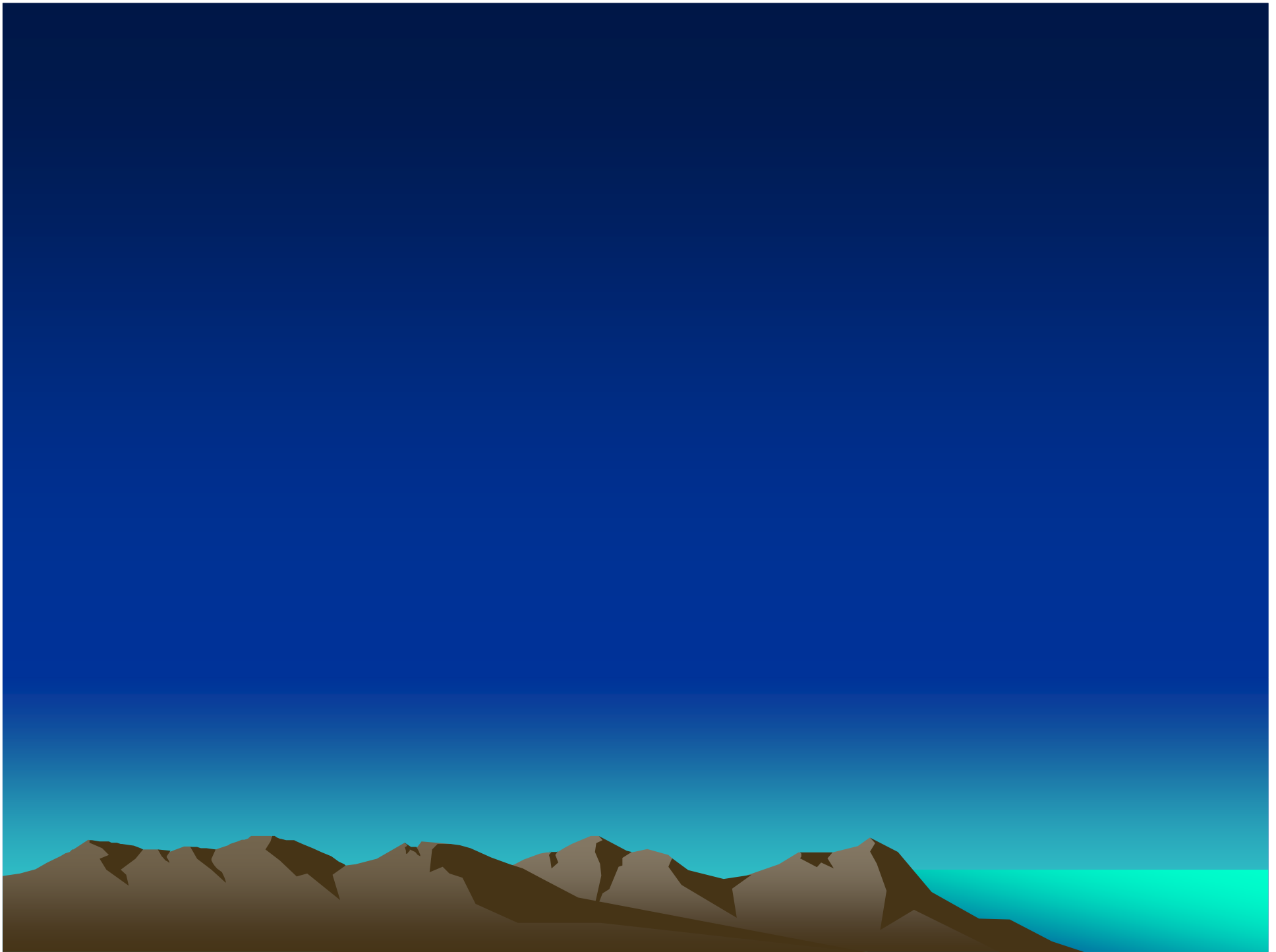


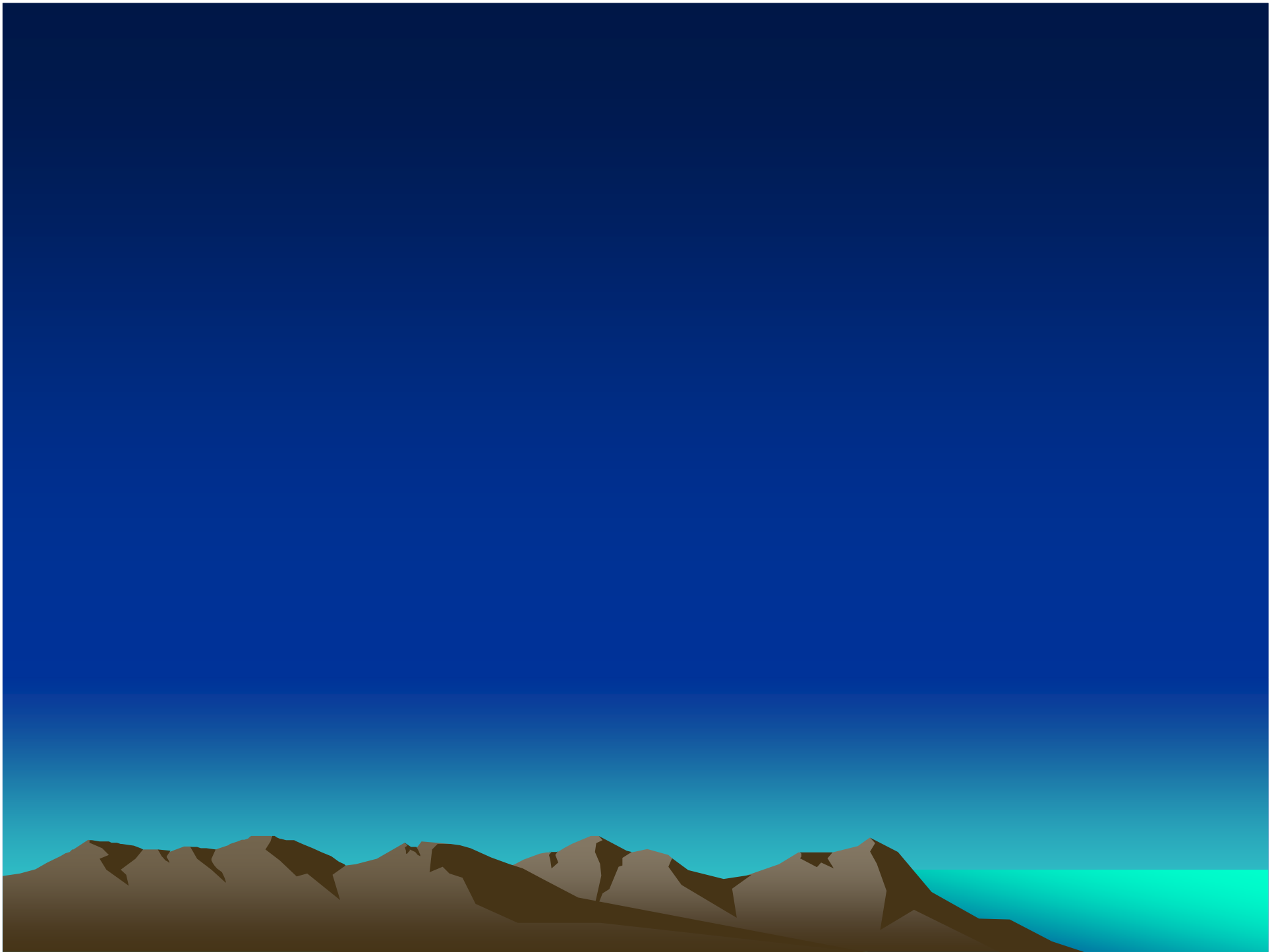


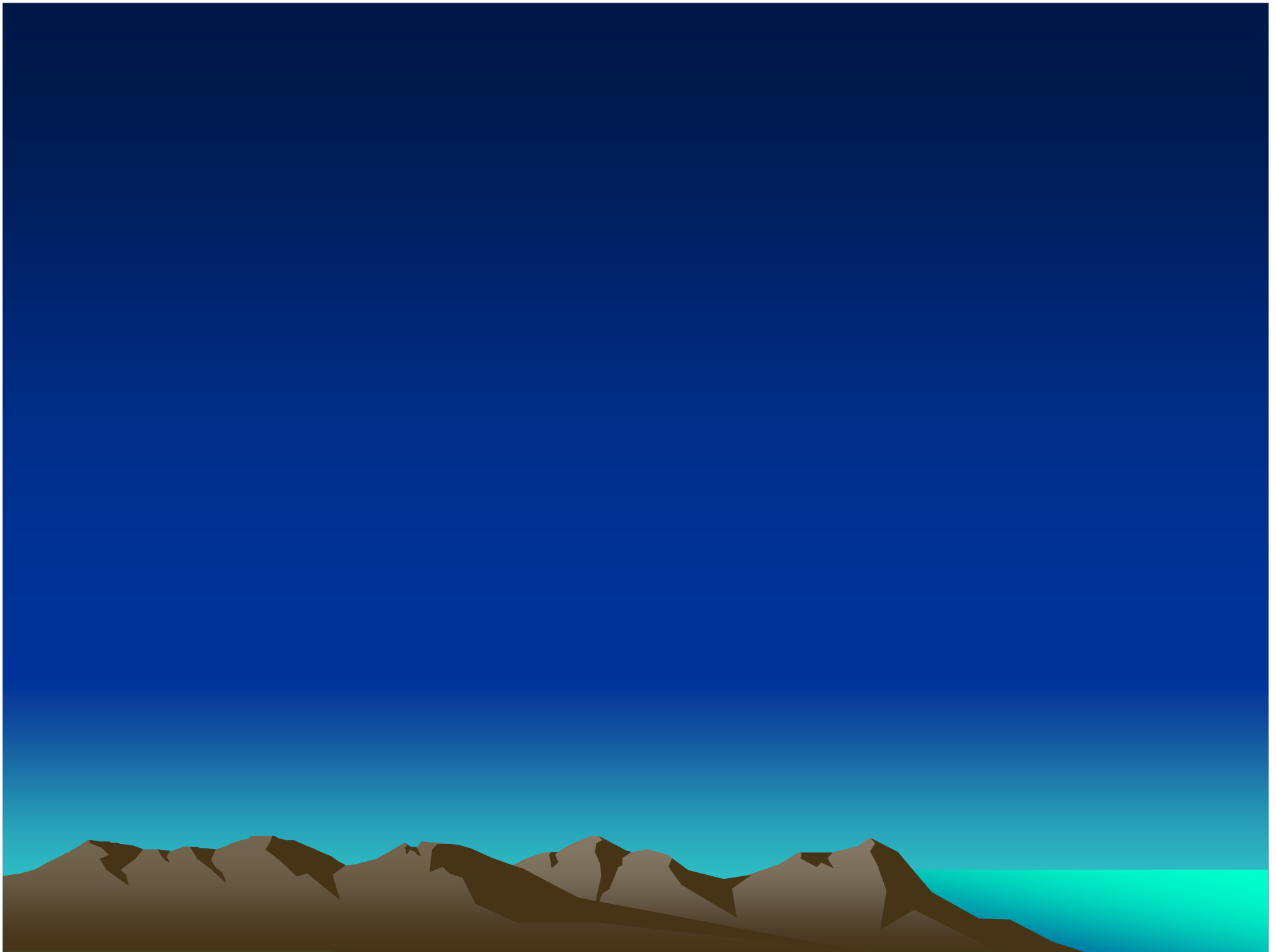
Casting

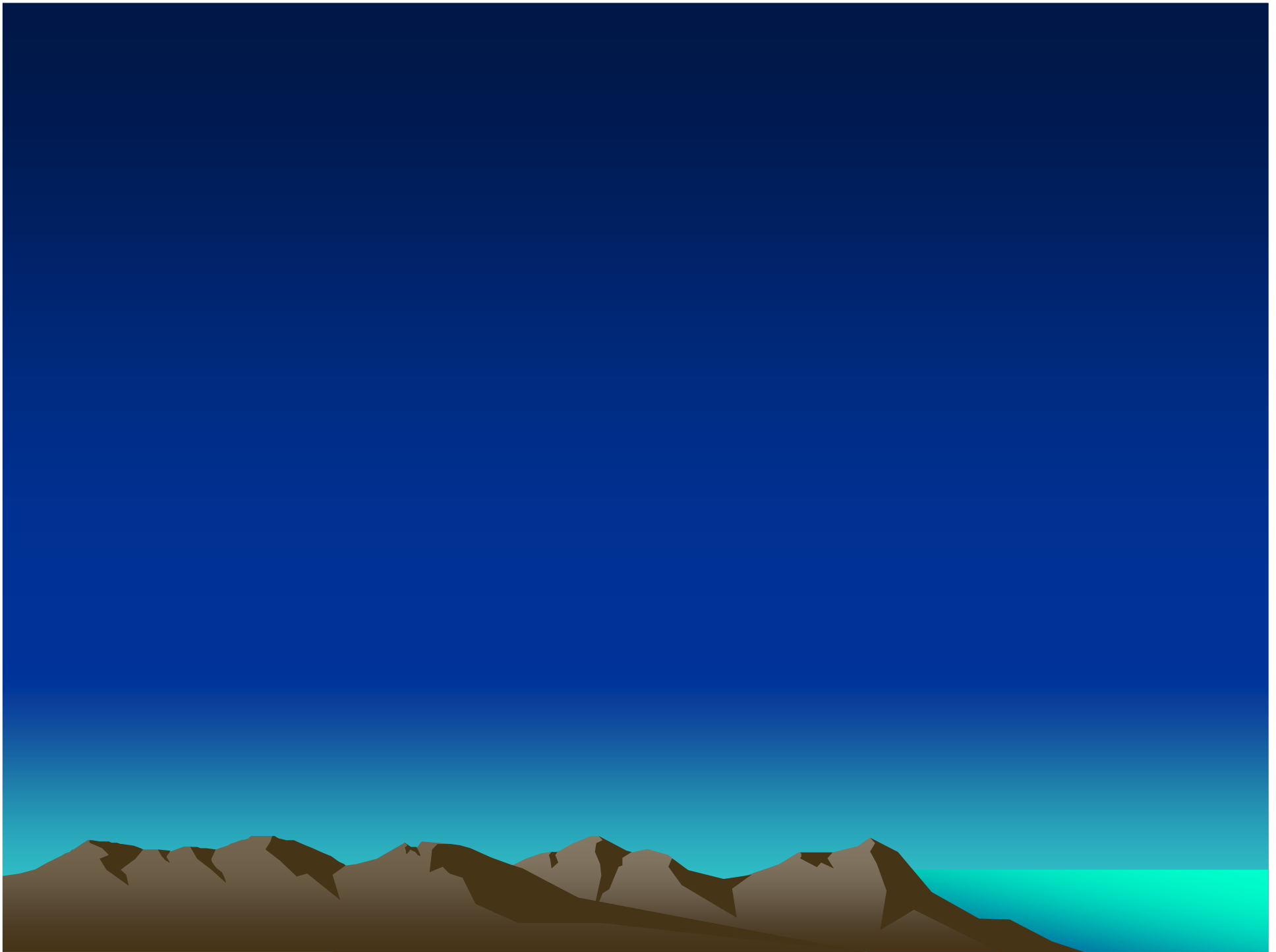


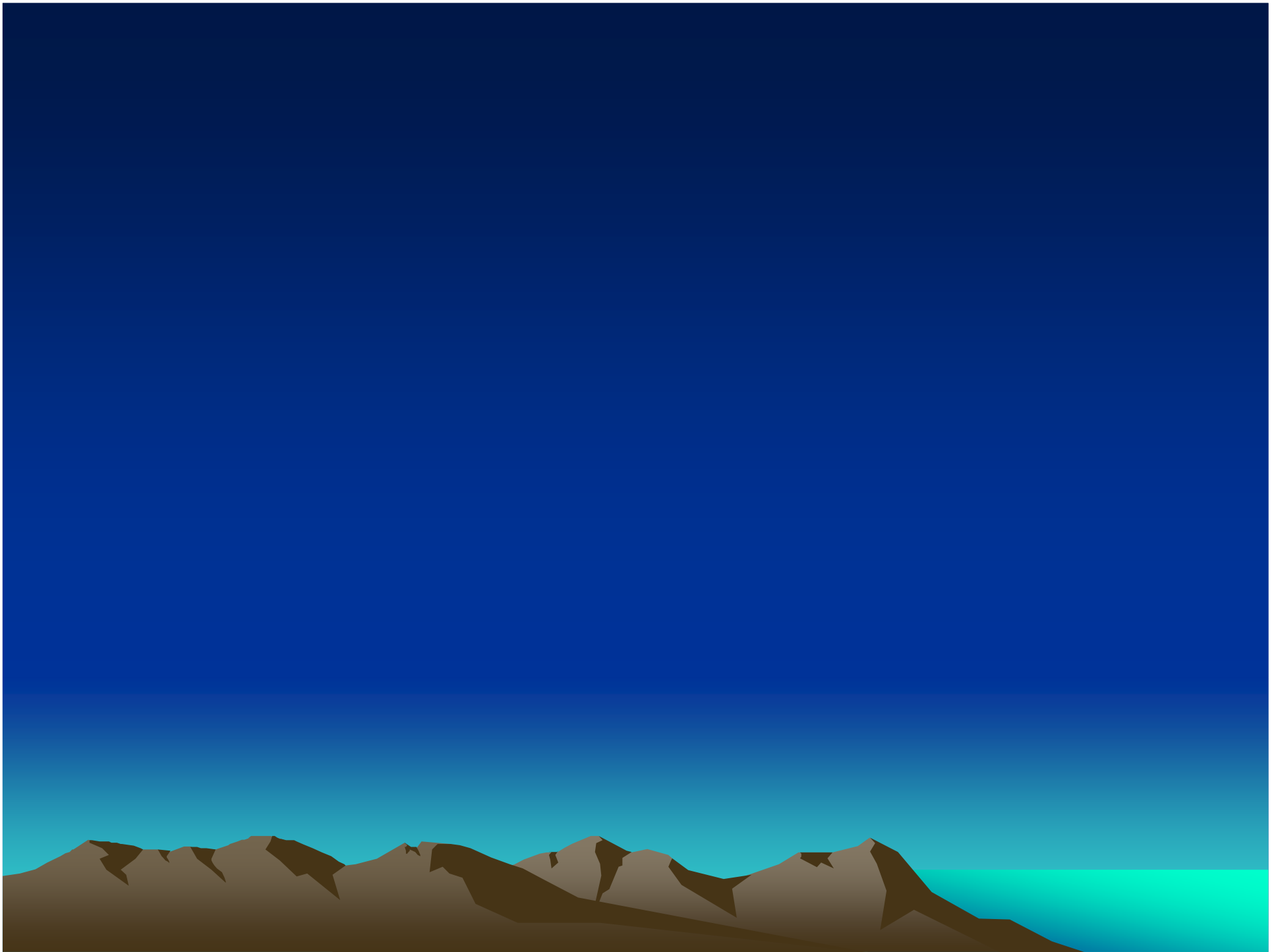


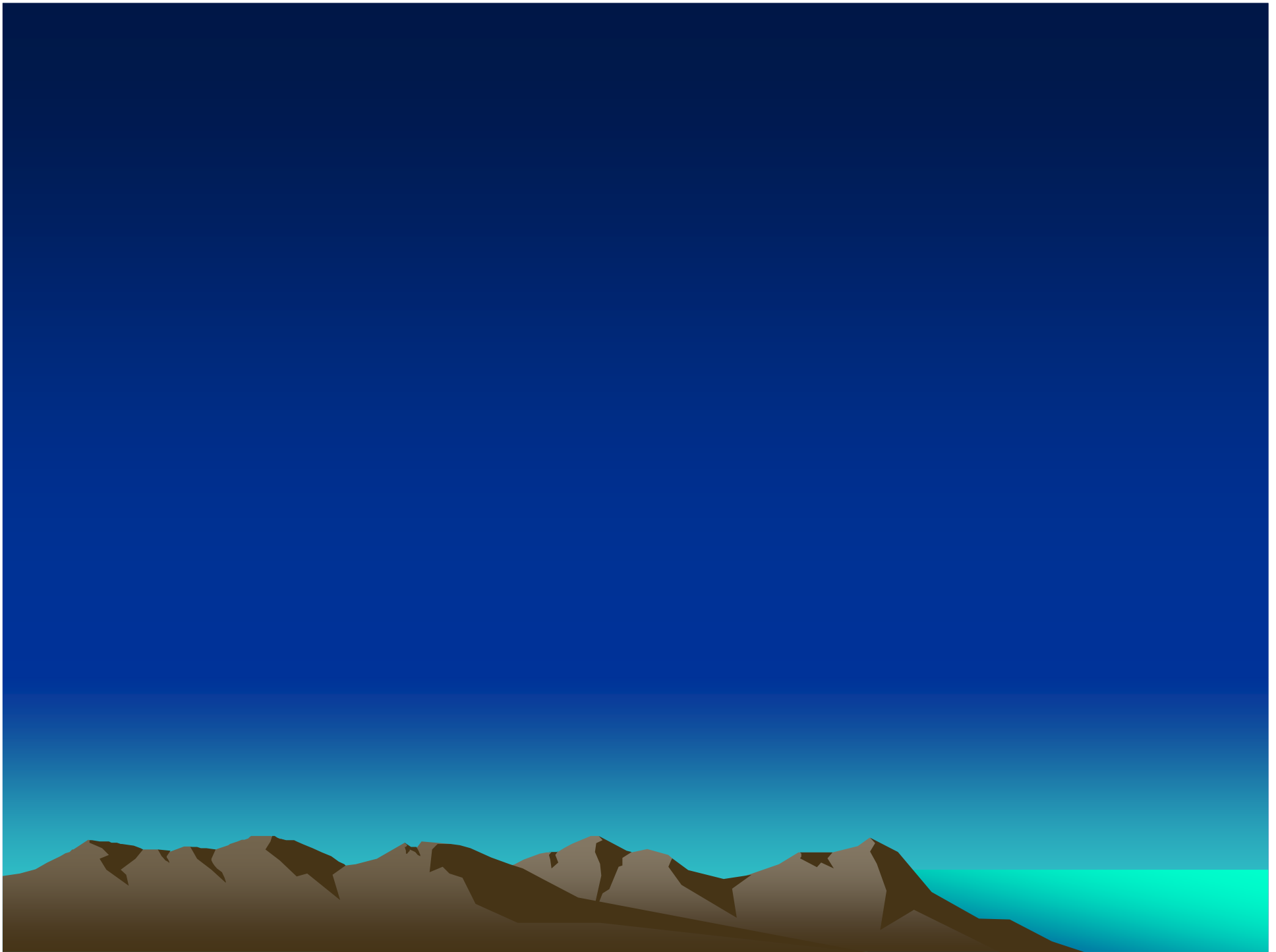


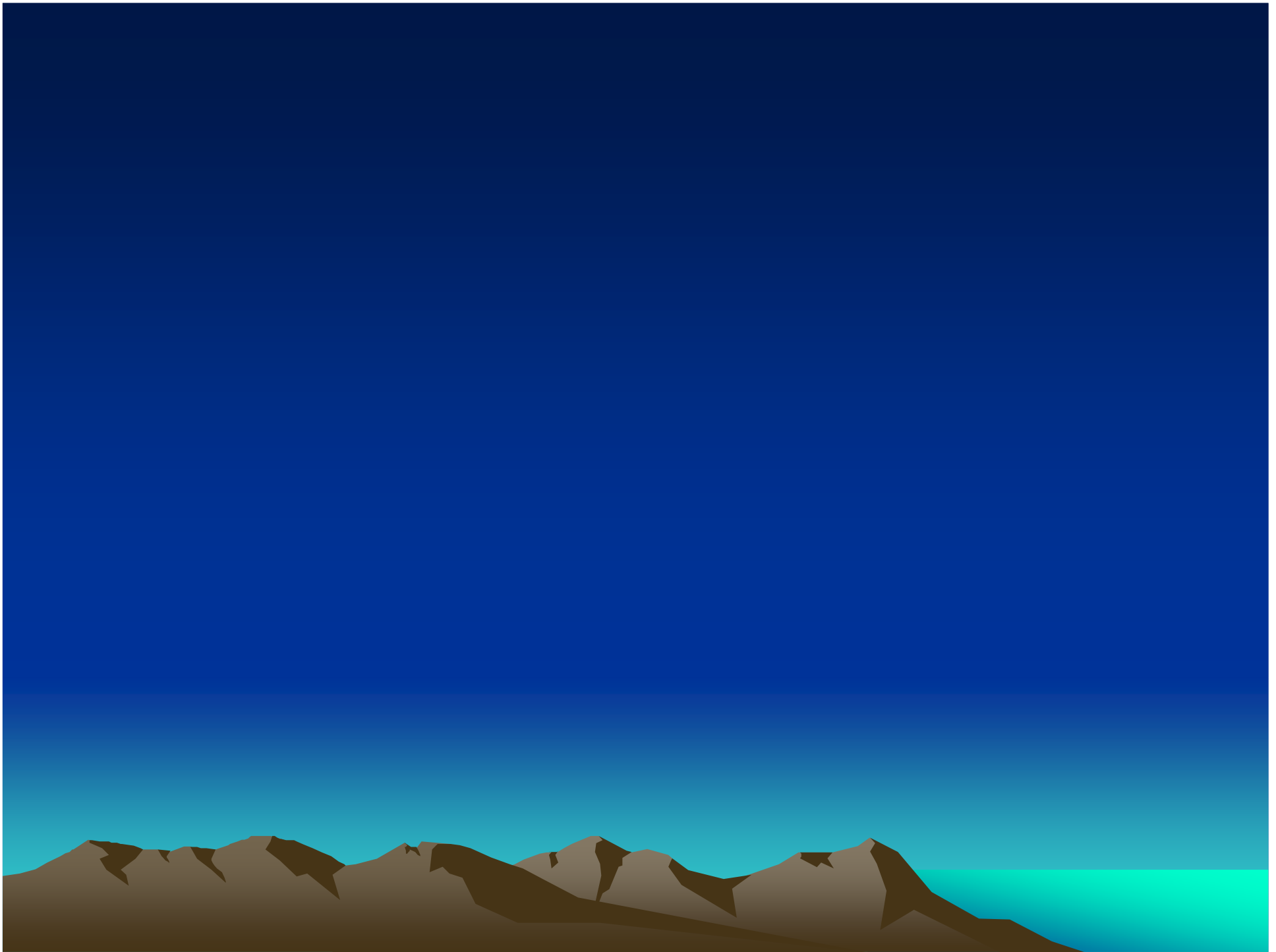


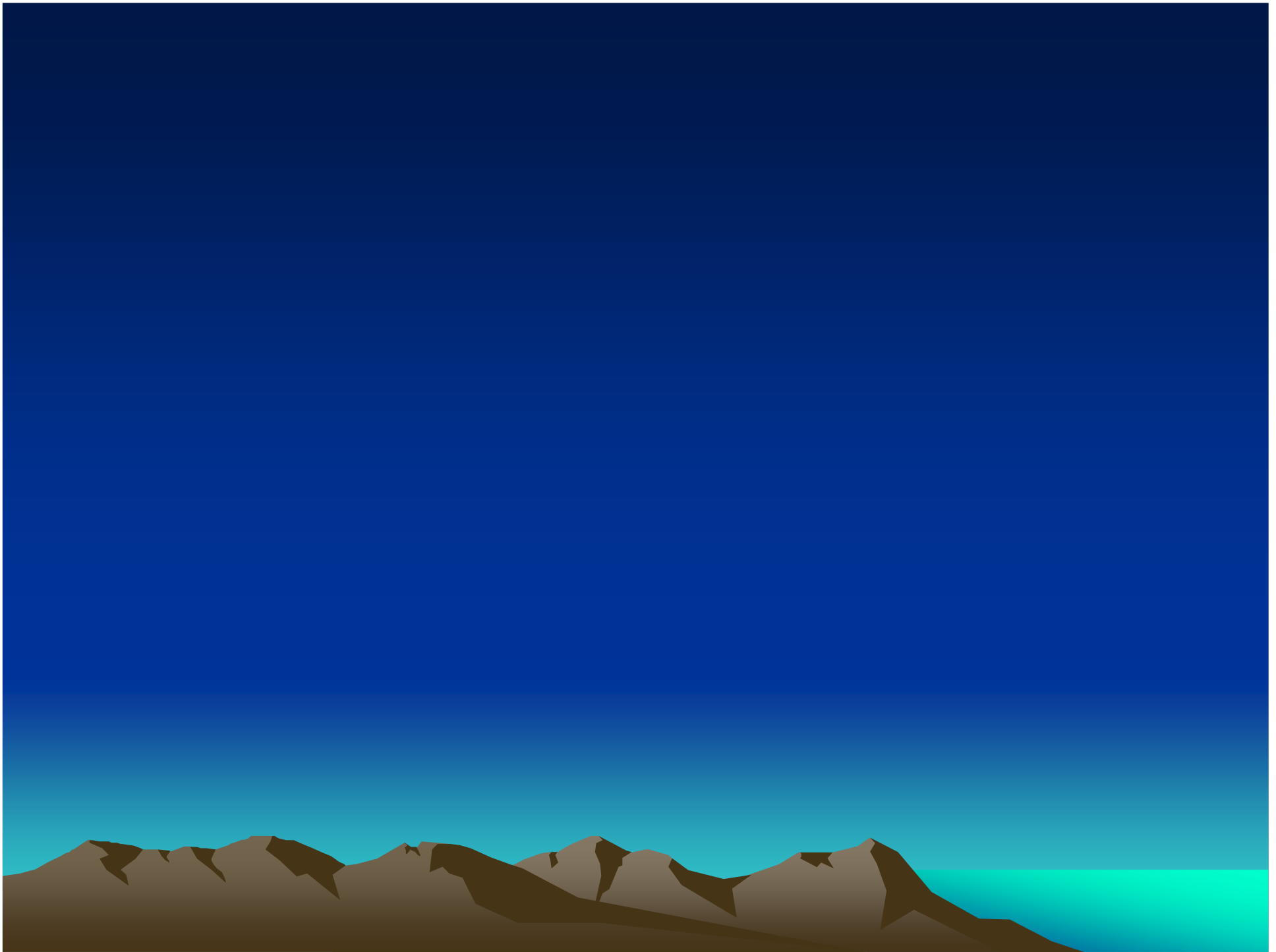


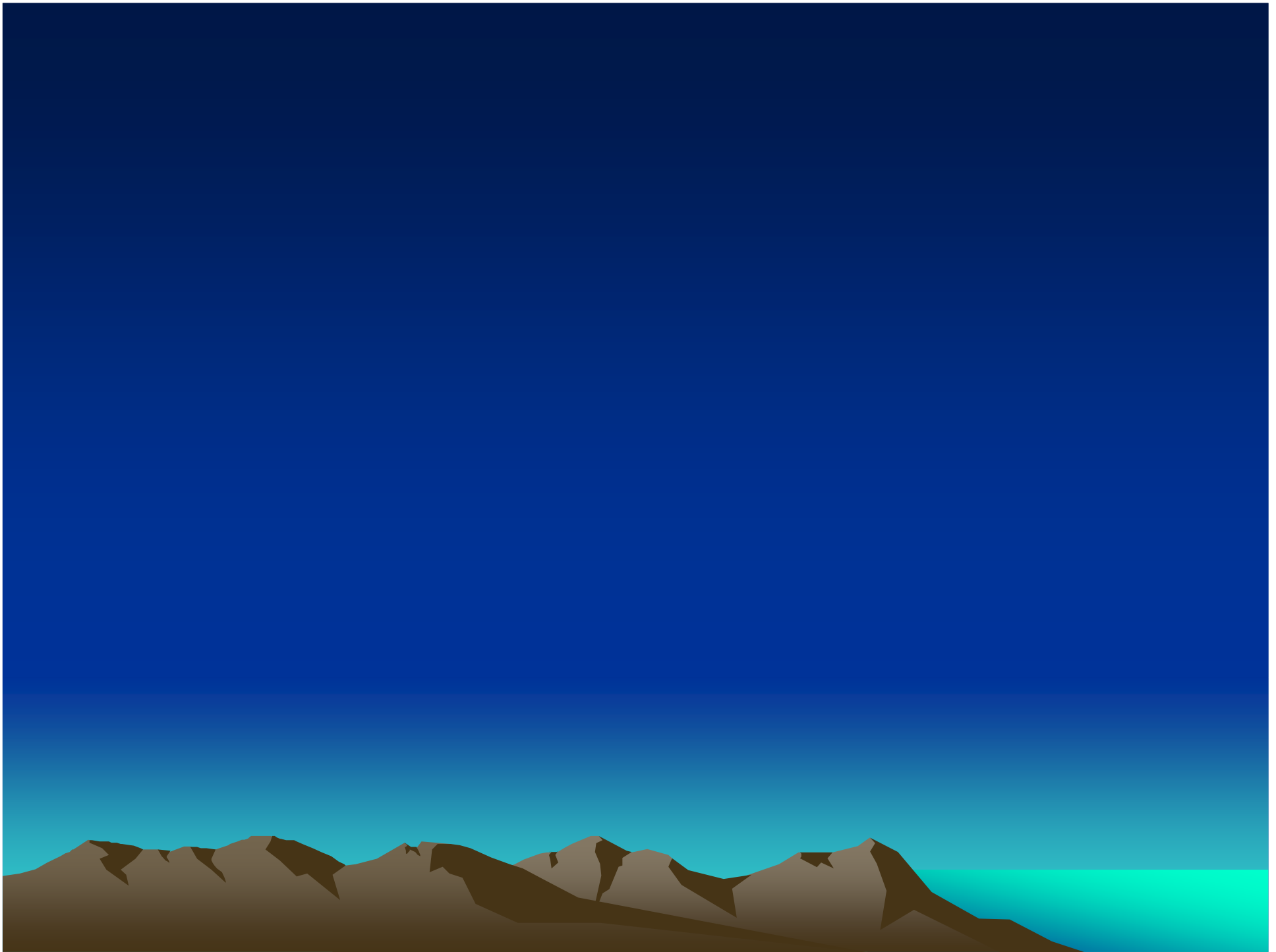






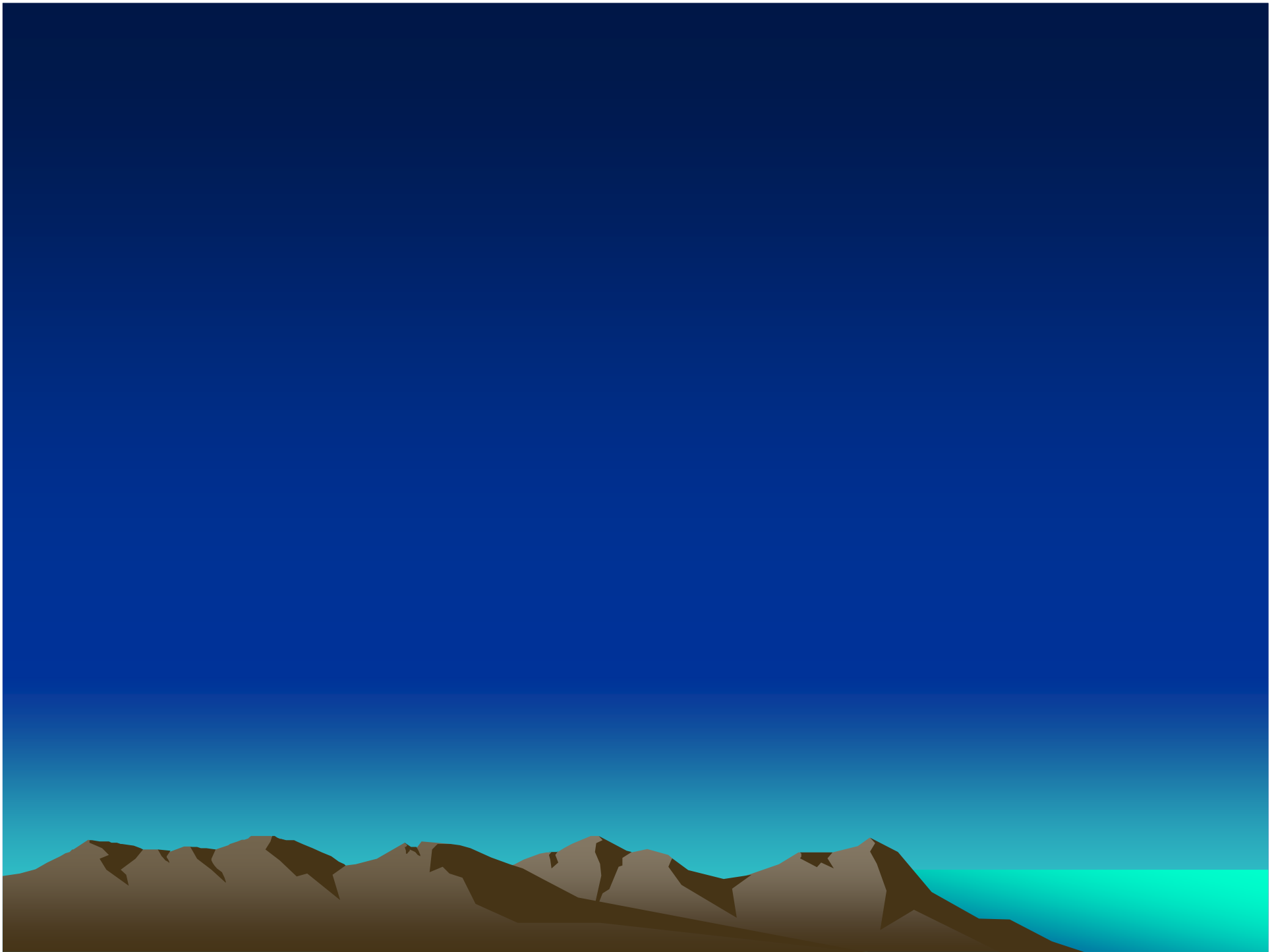


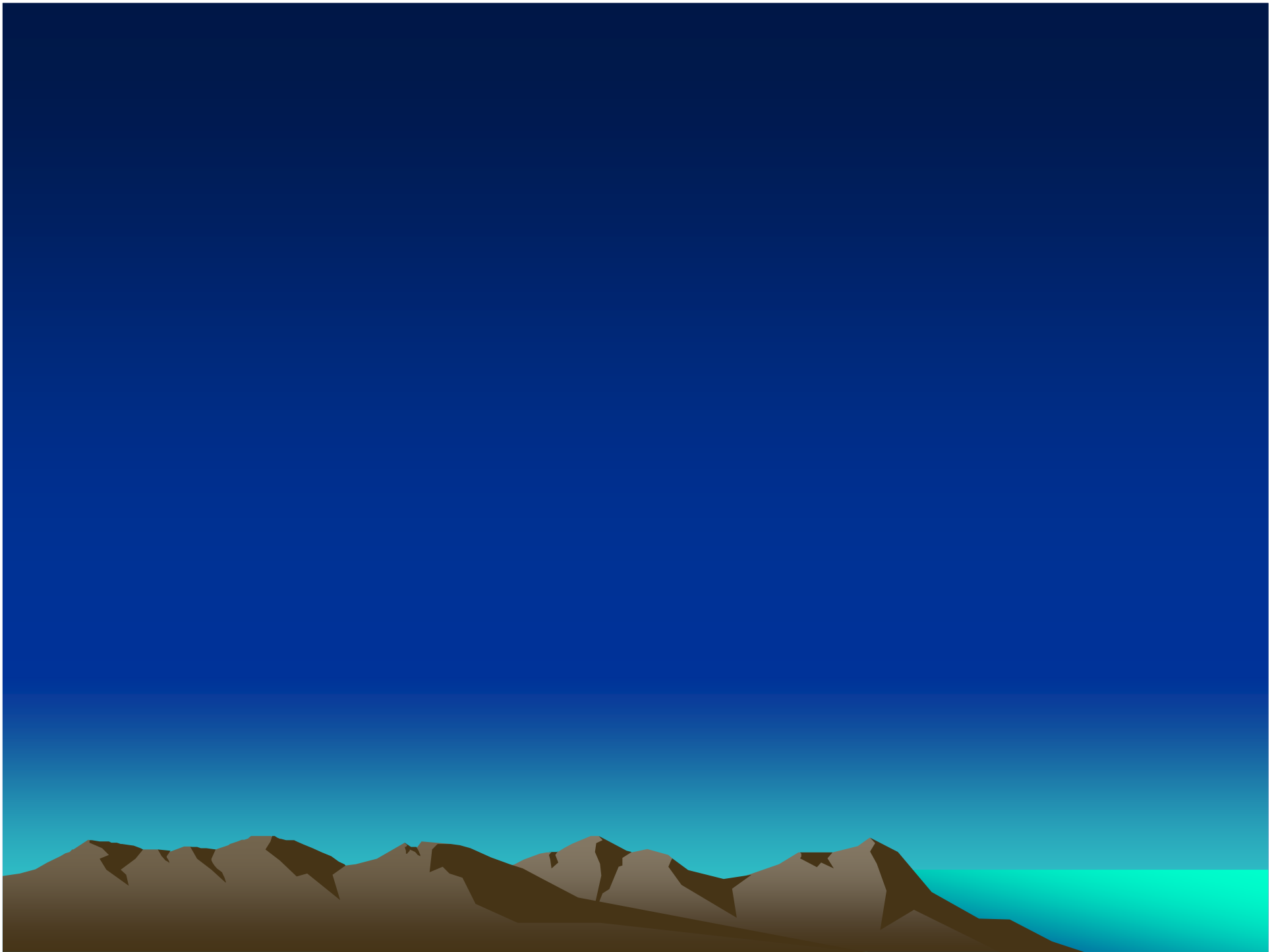


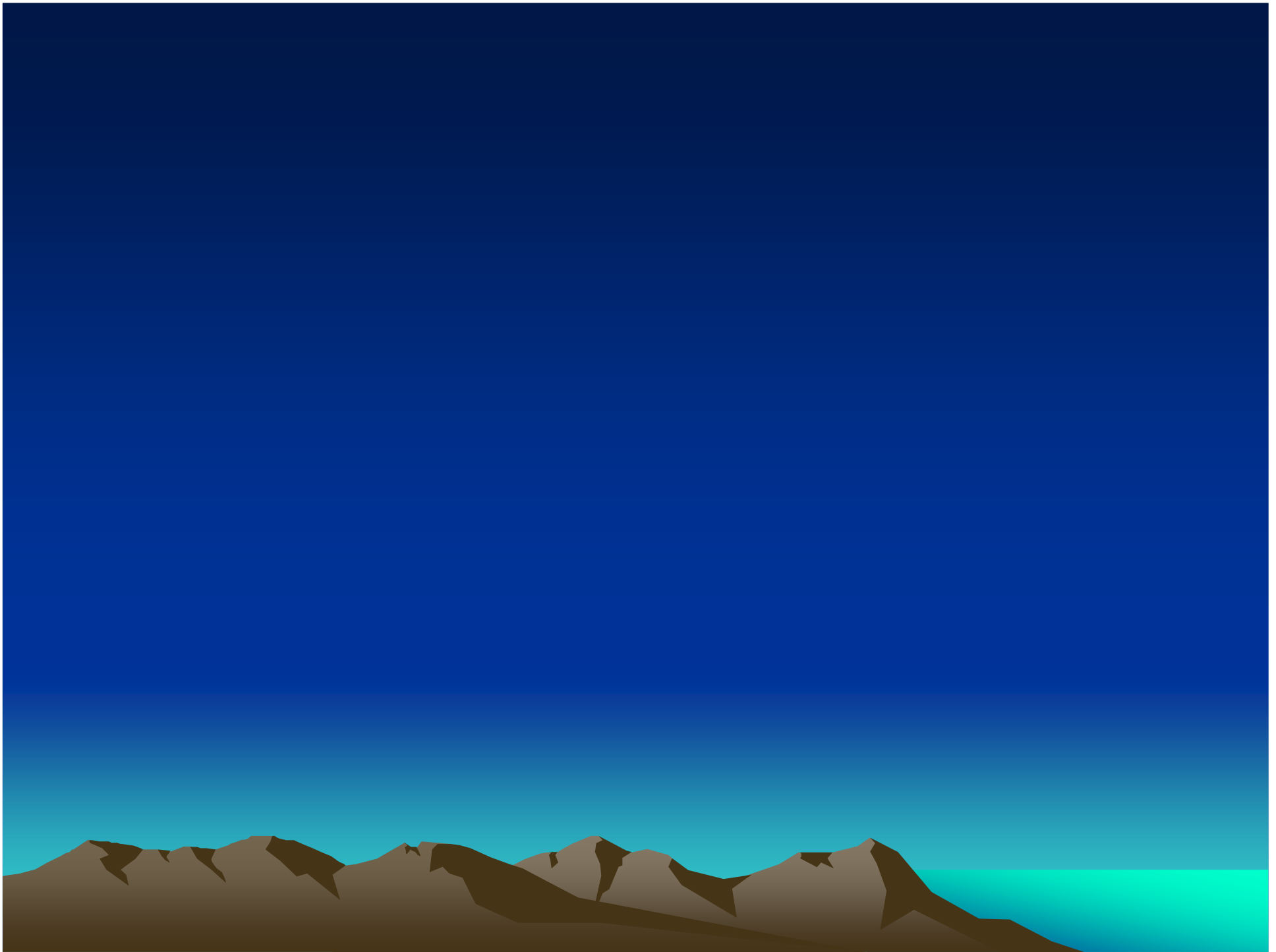


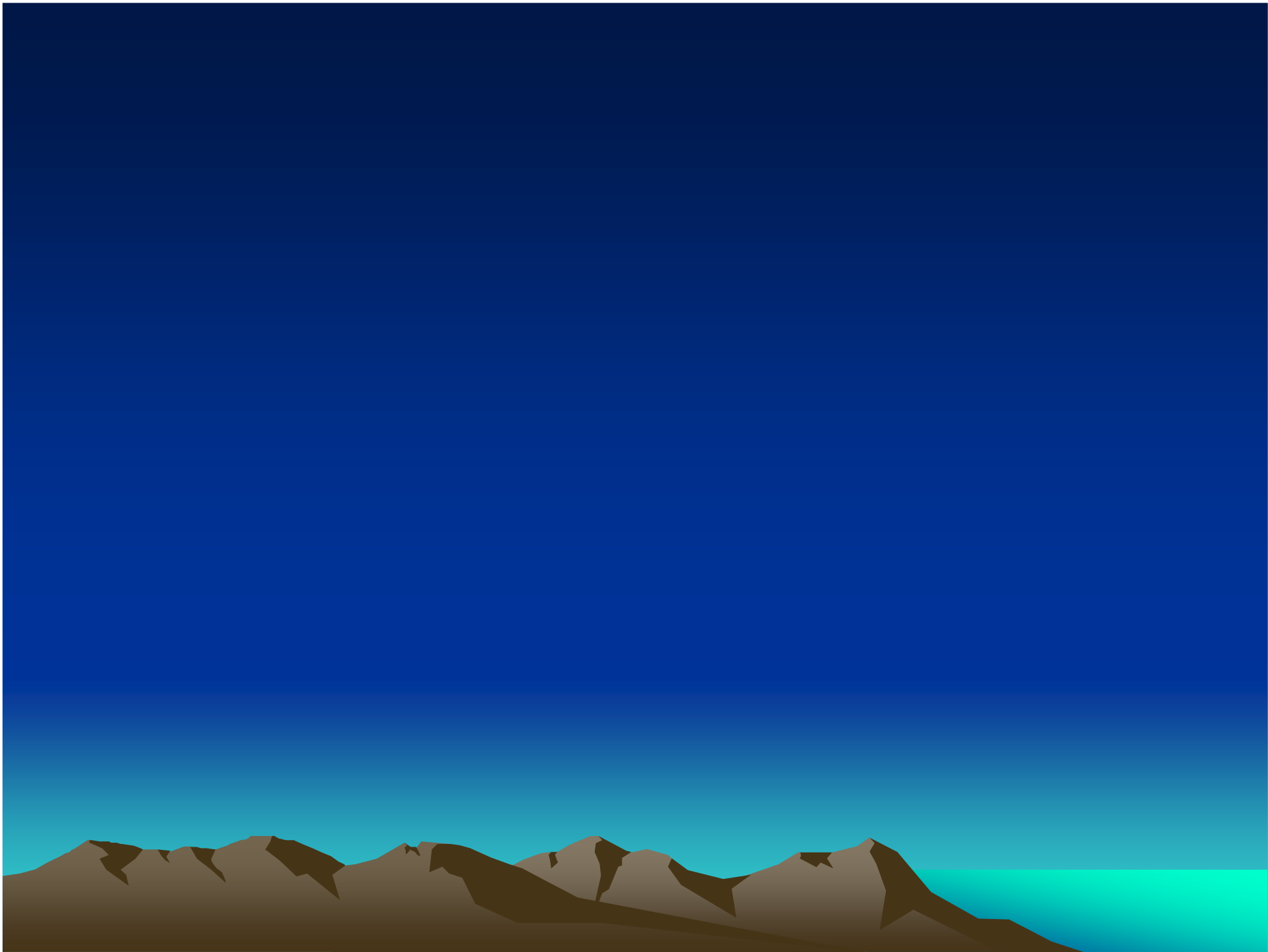
Mini Mill

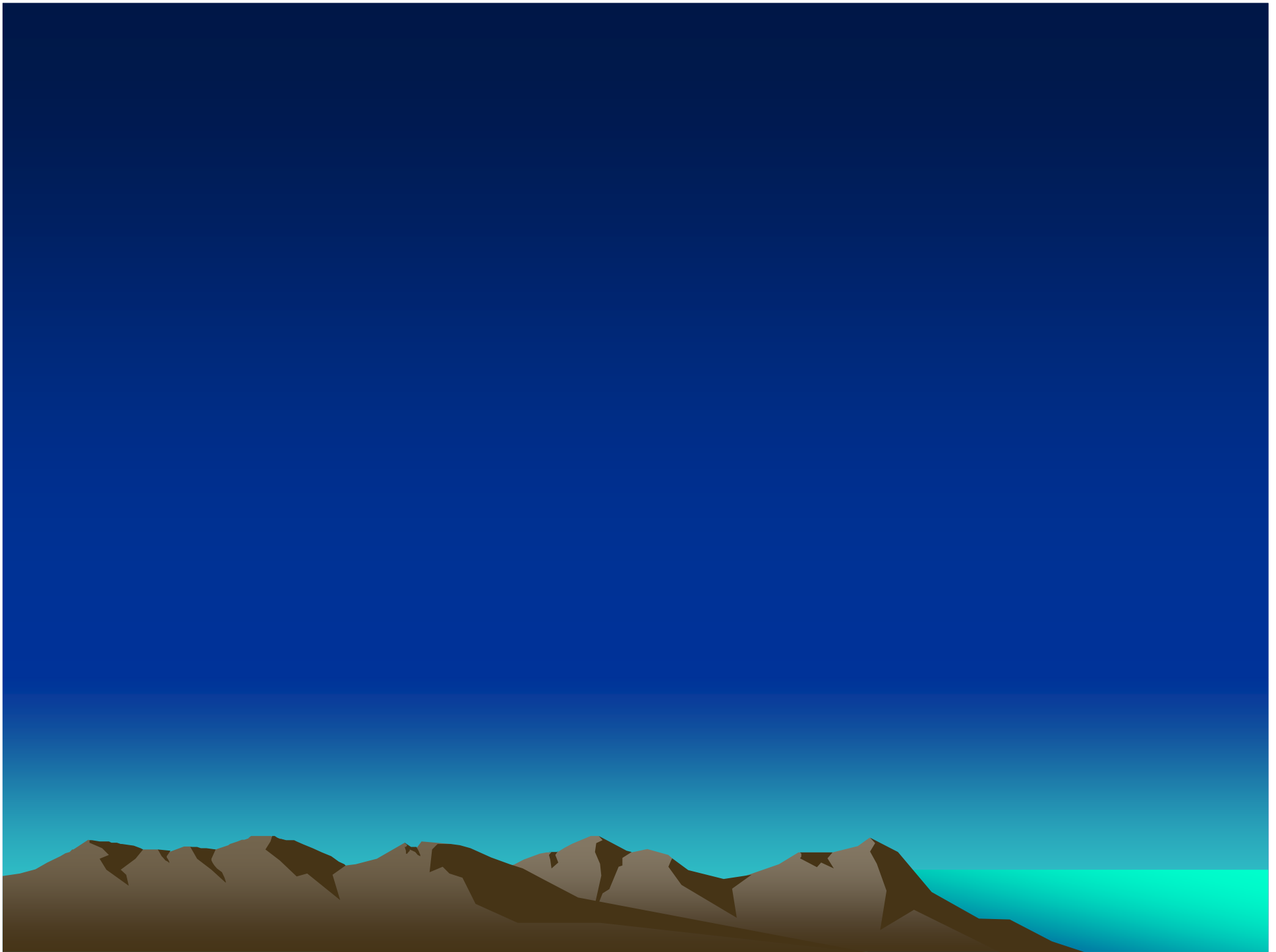


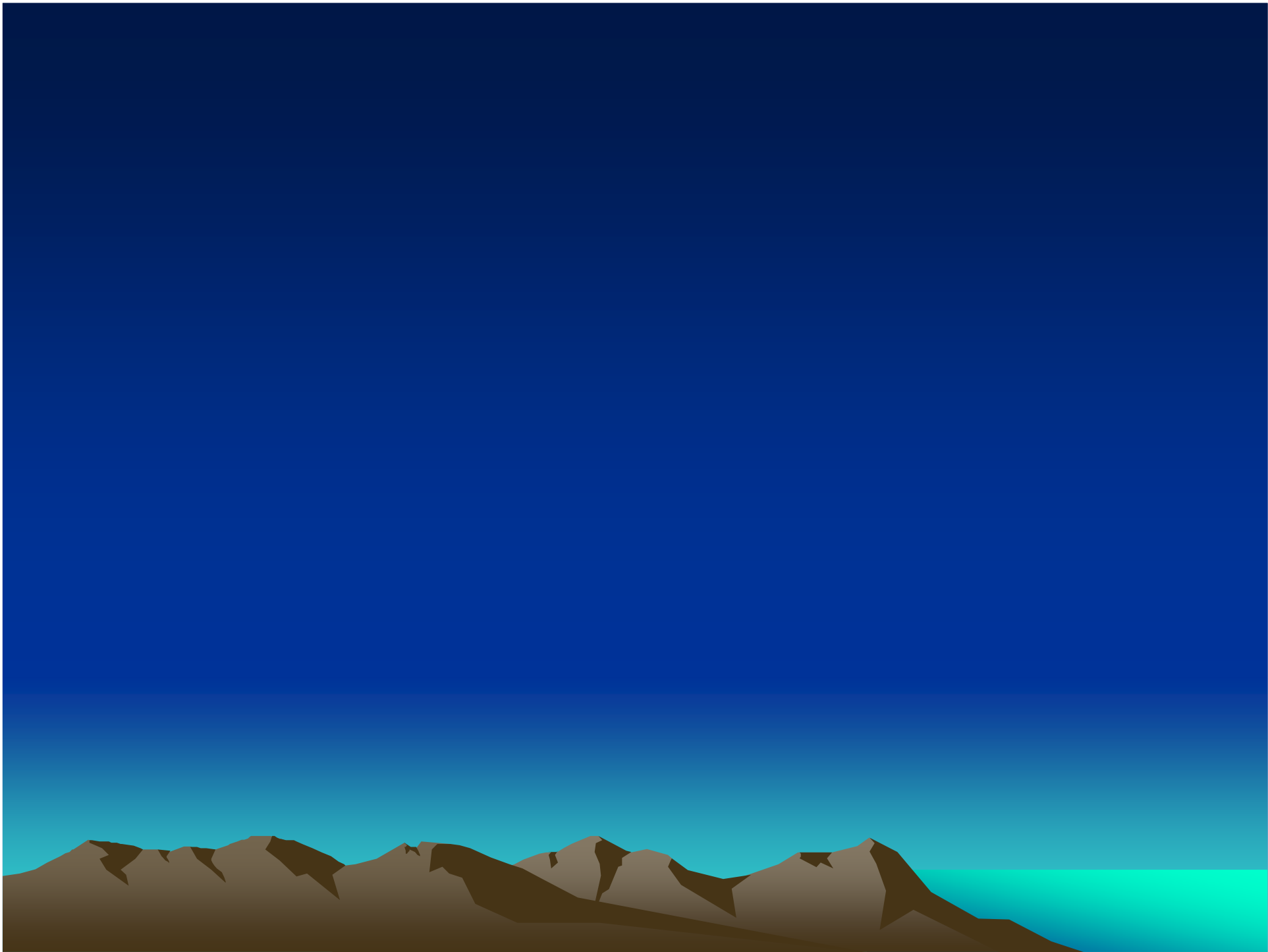


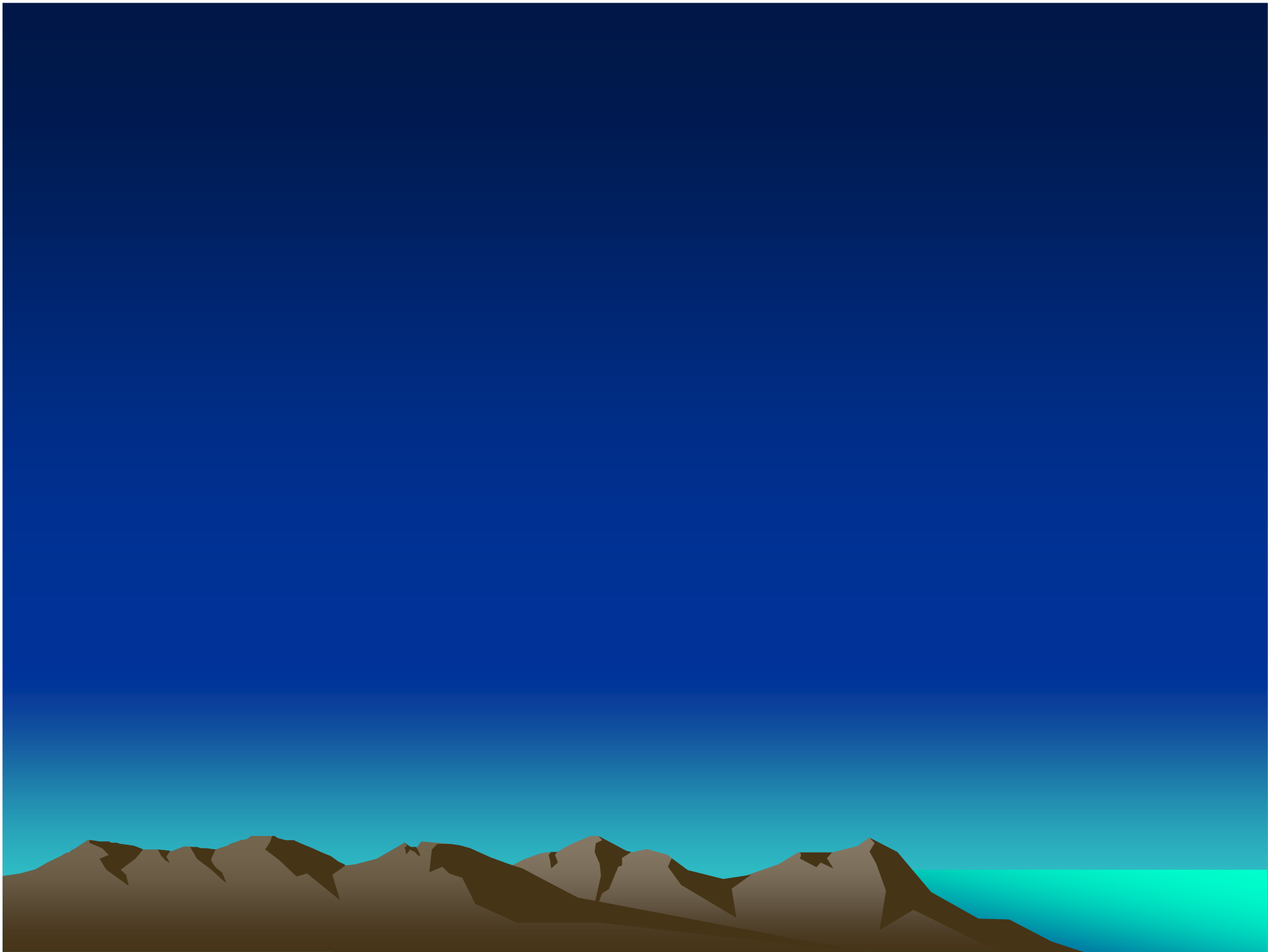


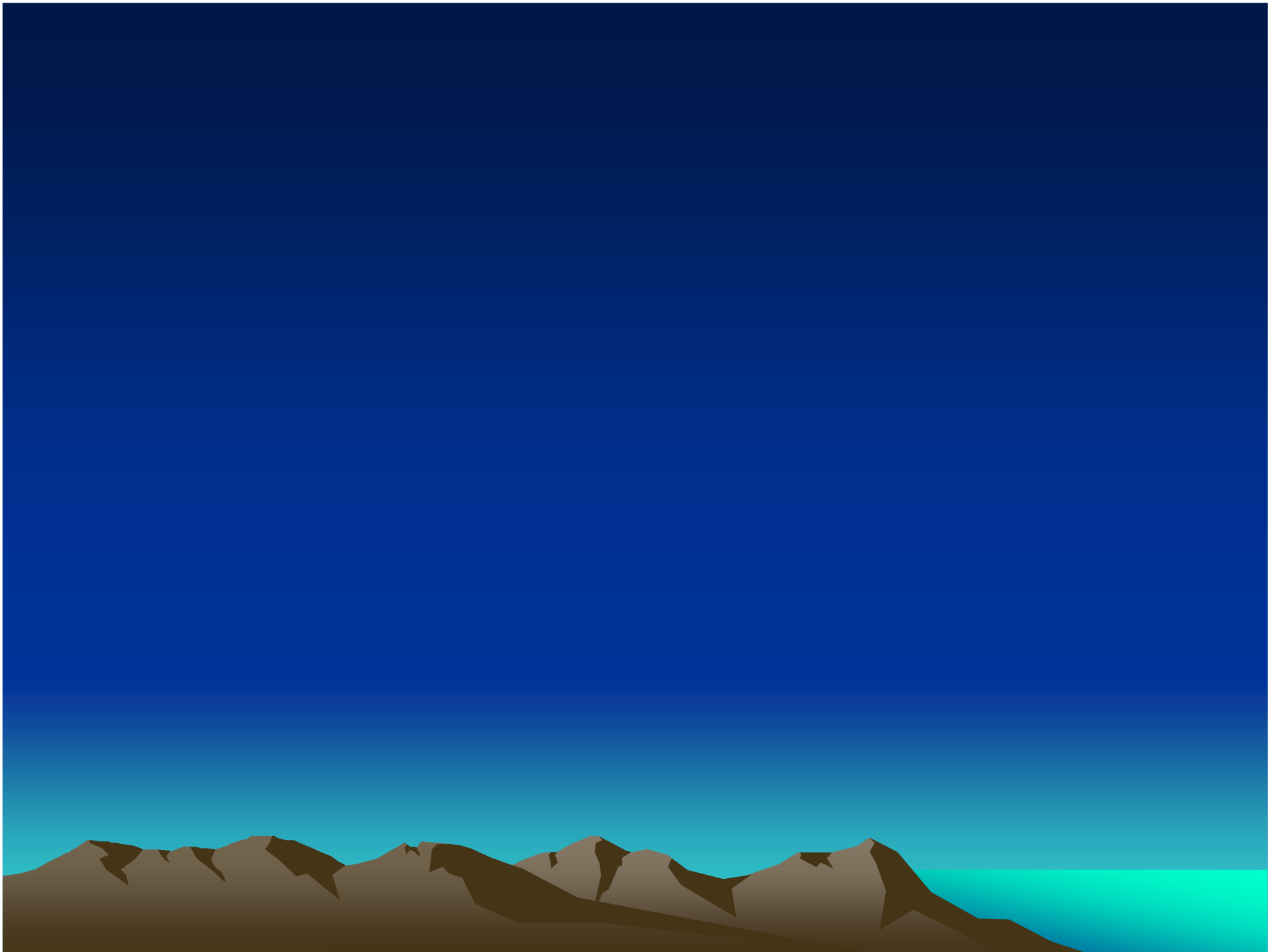


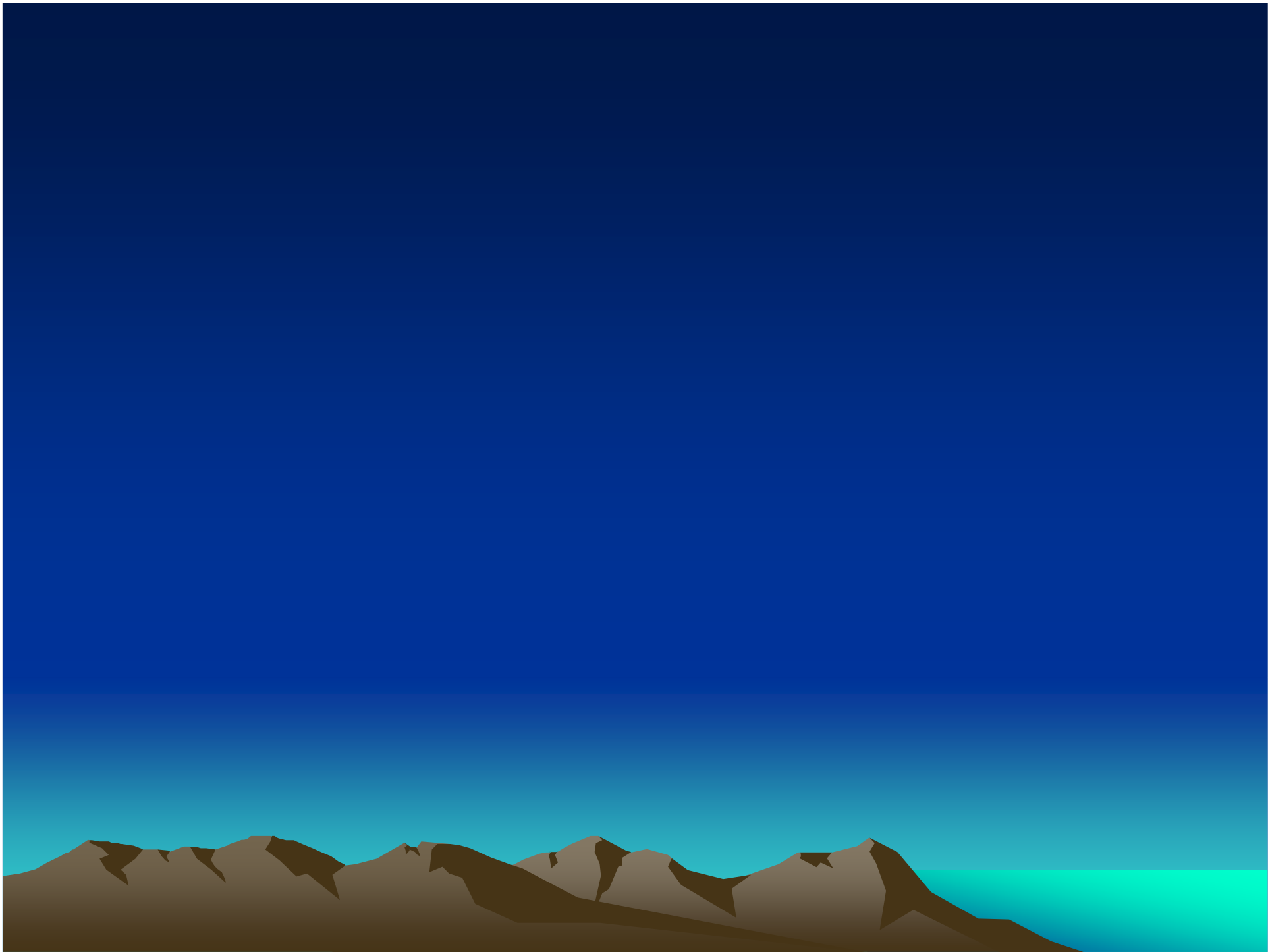


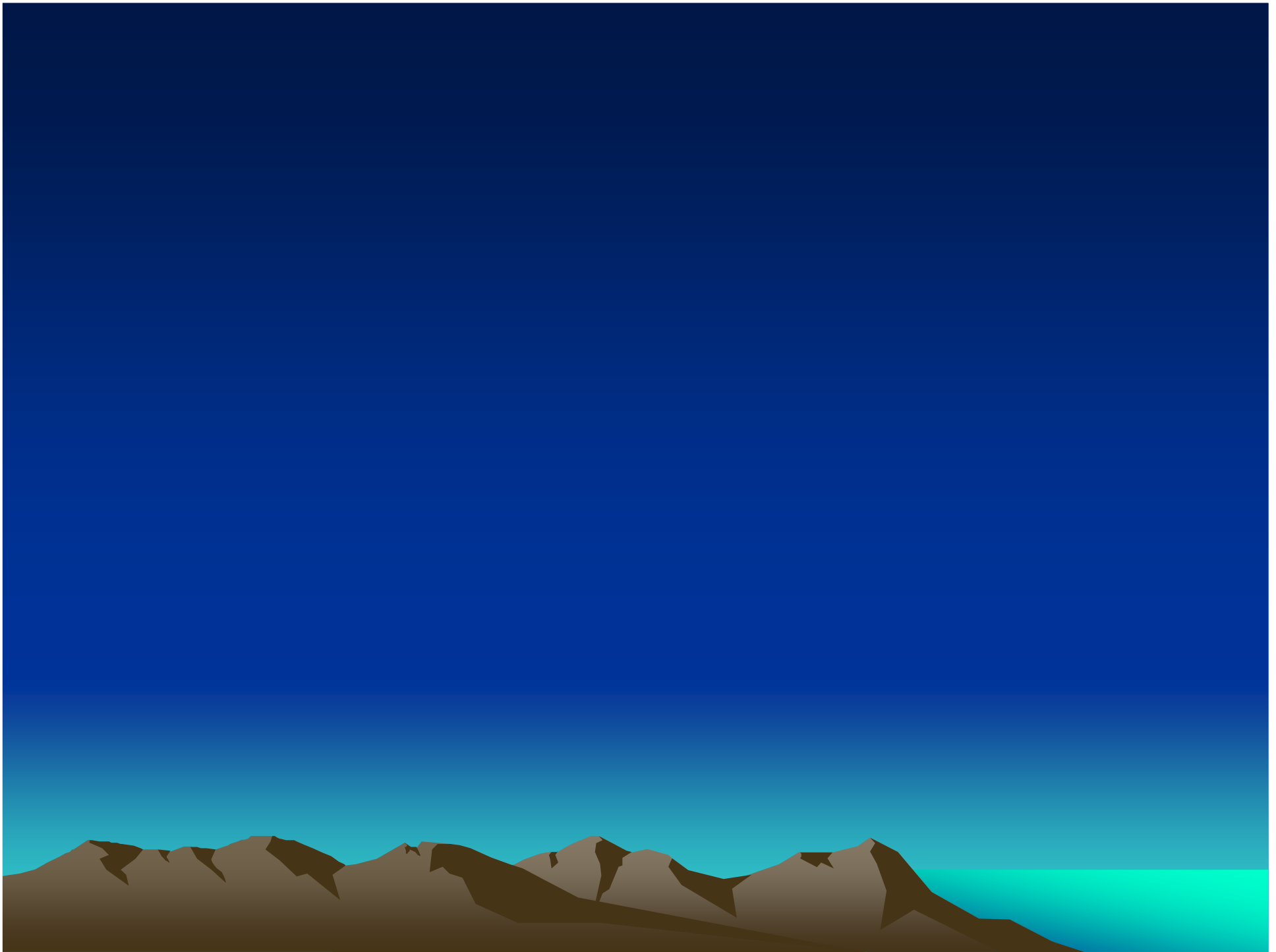






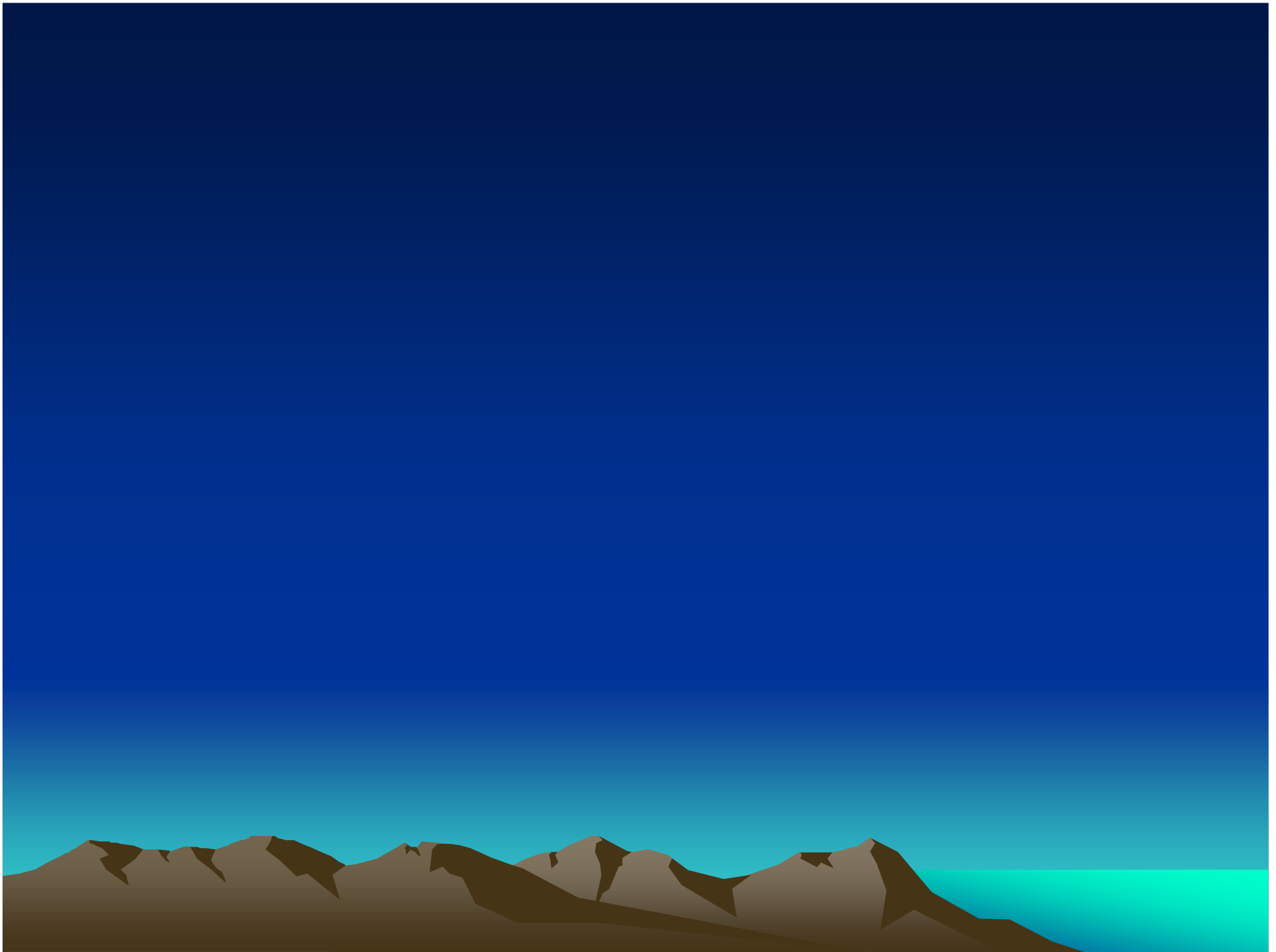


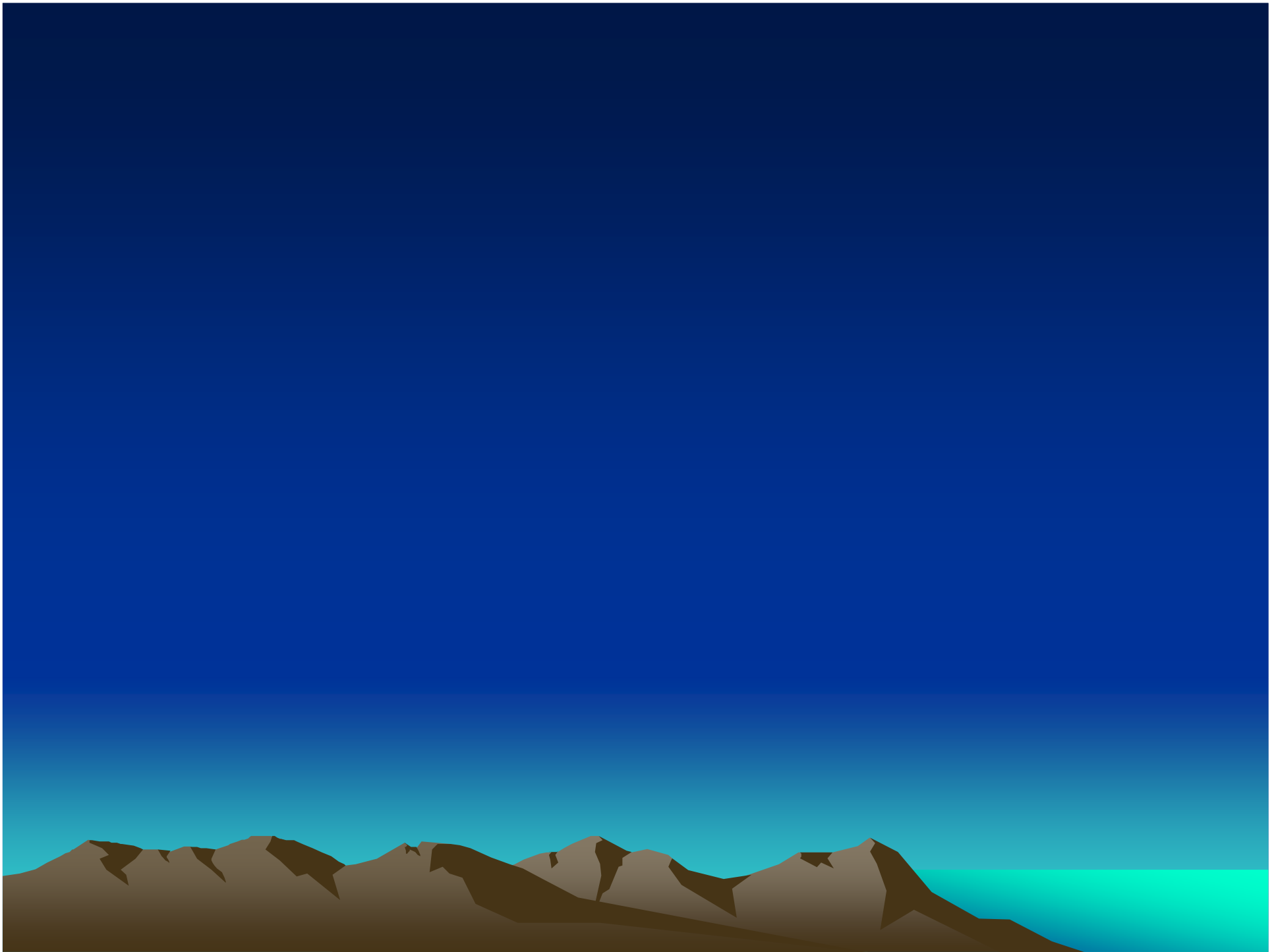


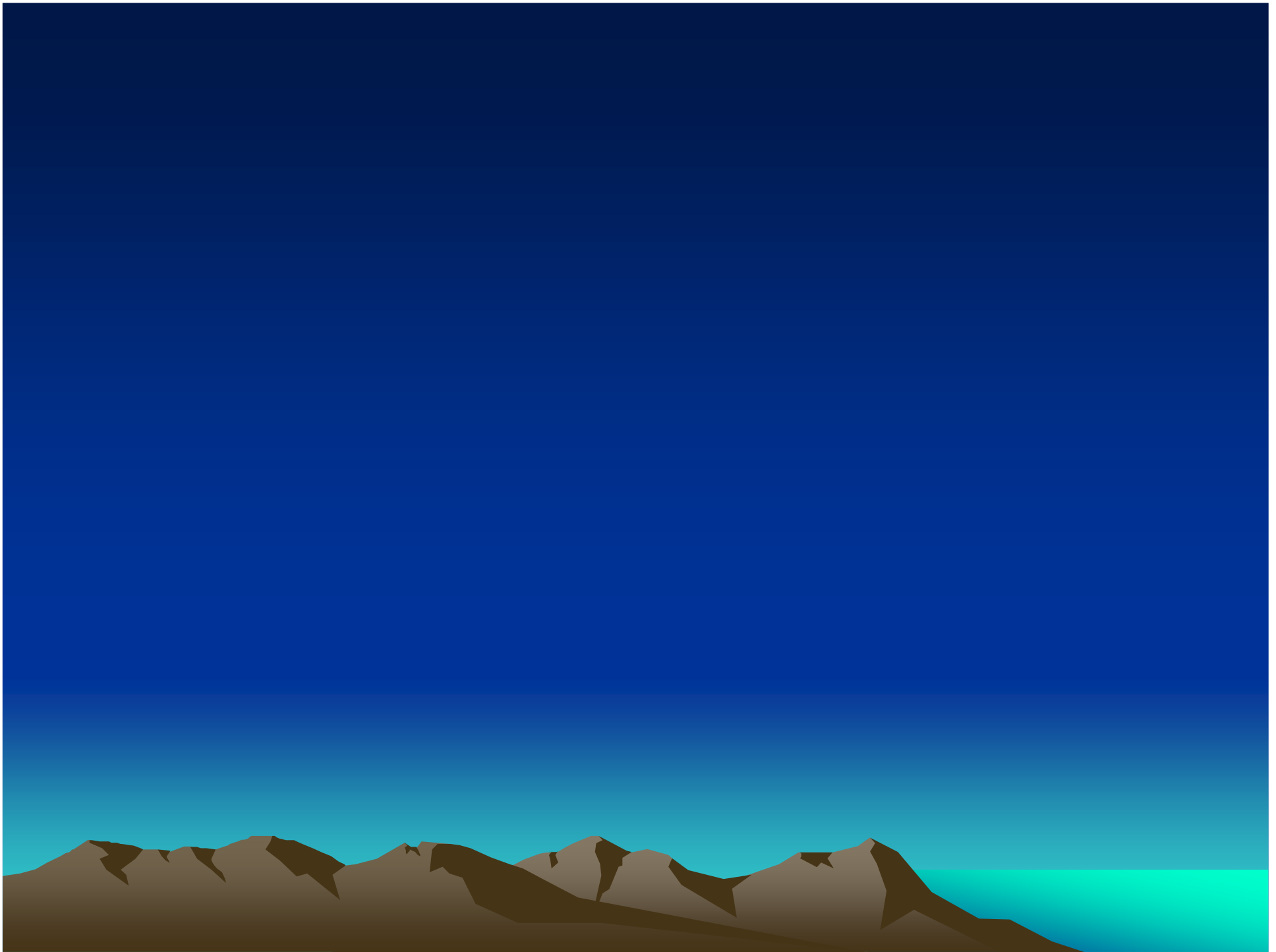


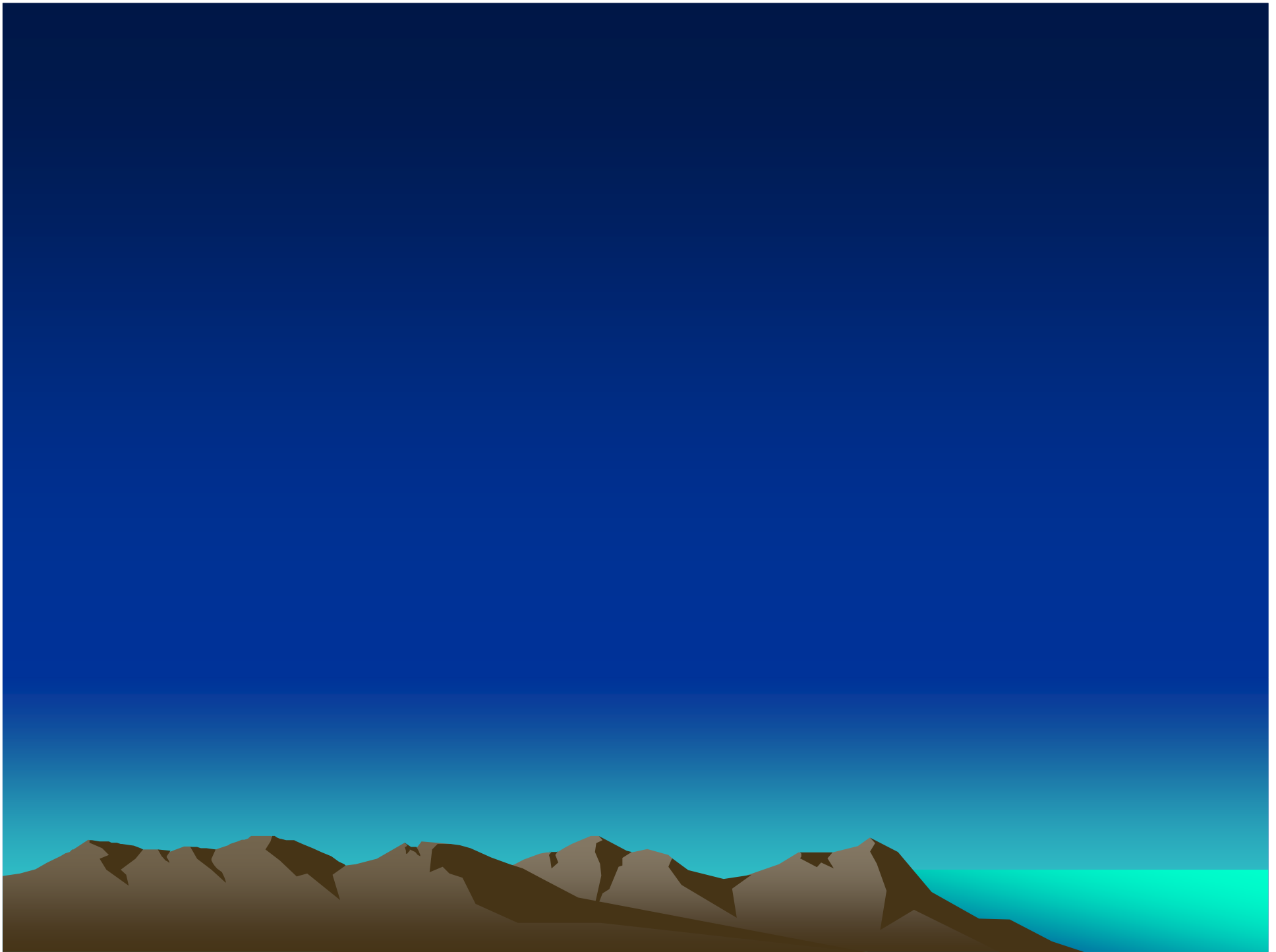
Hot Rolling

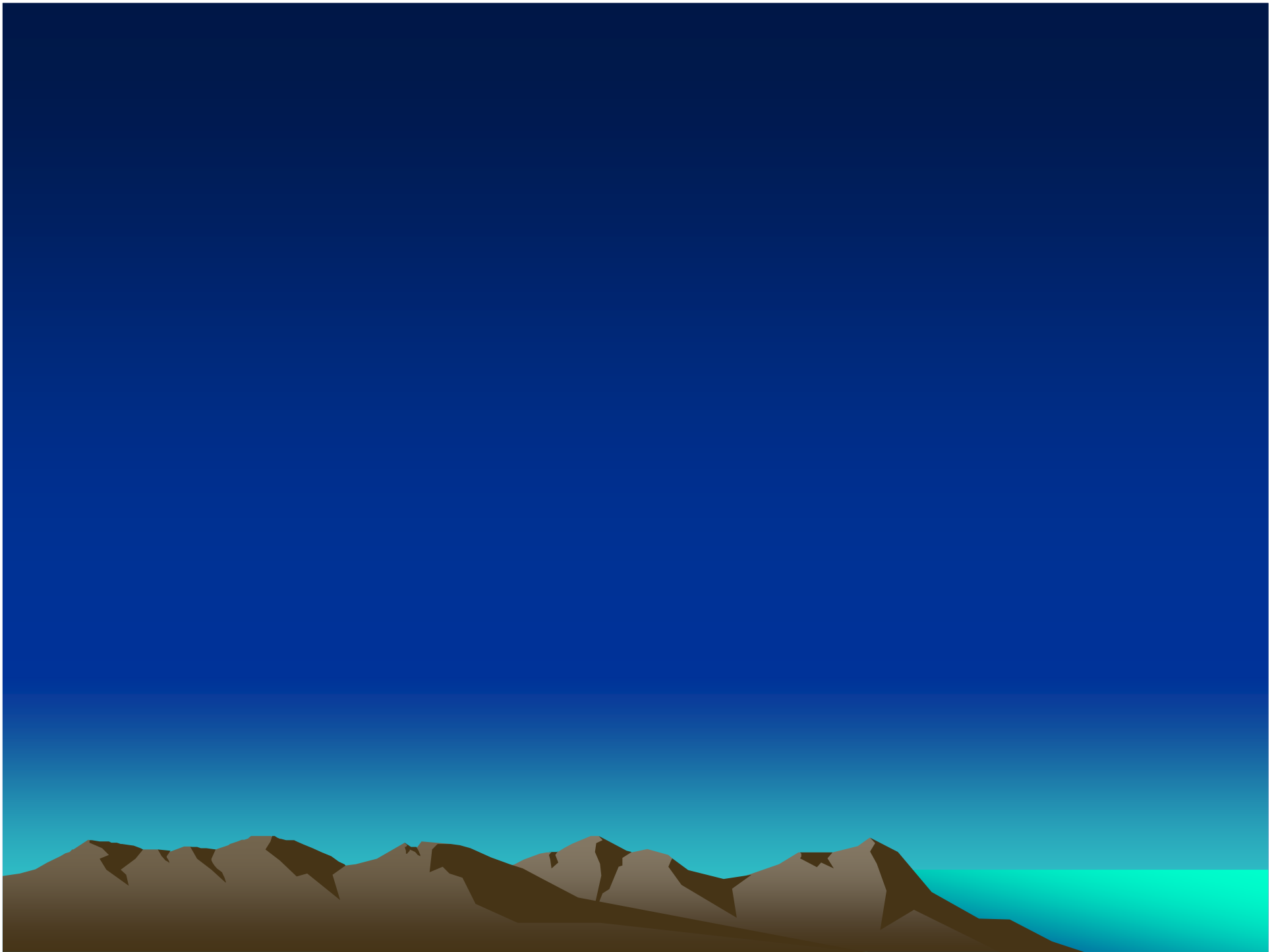


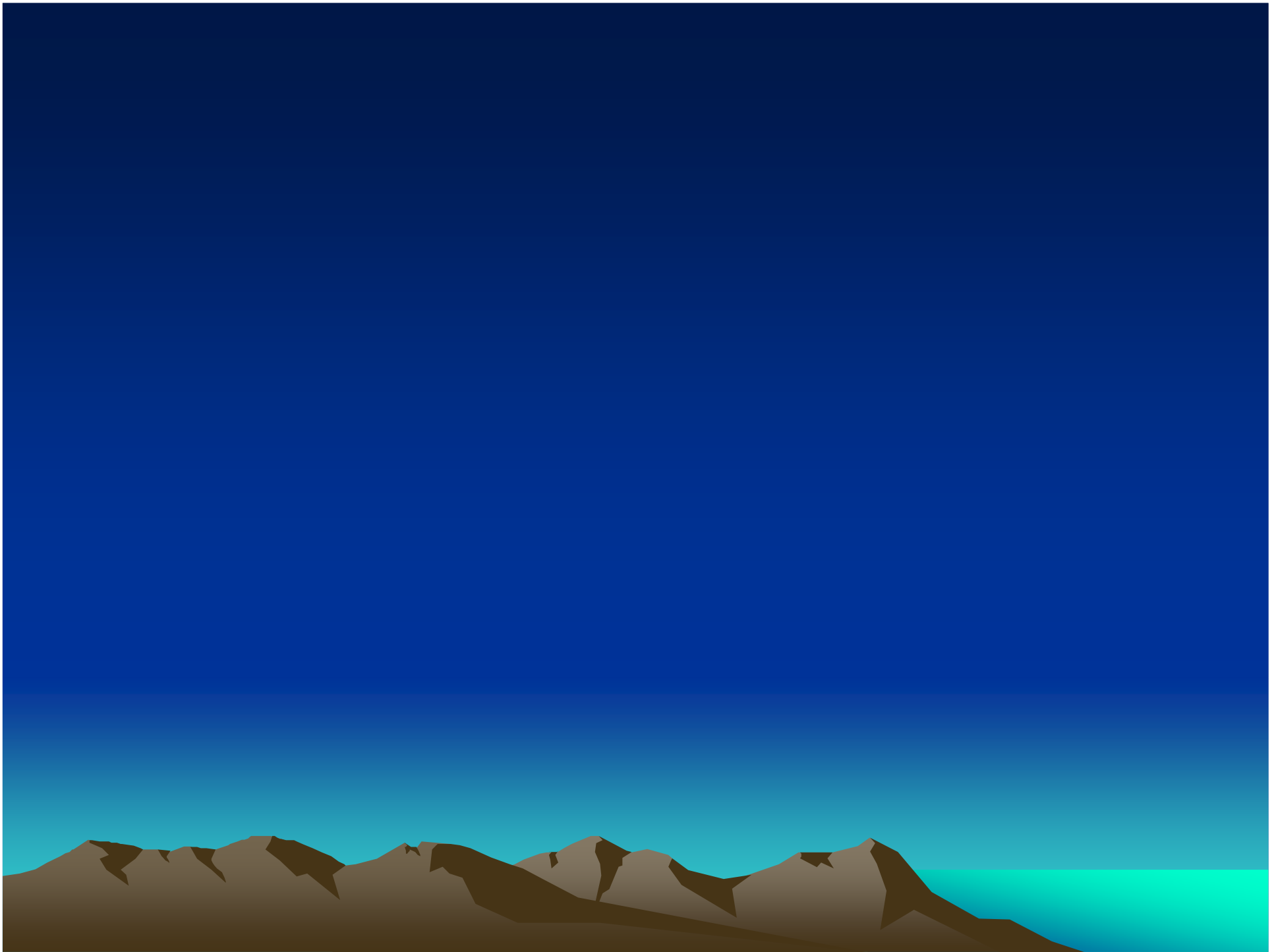


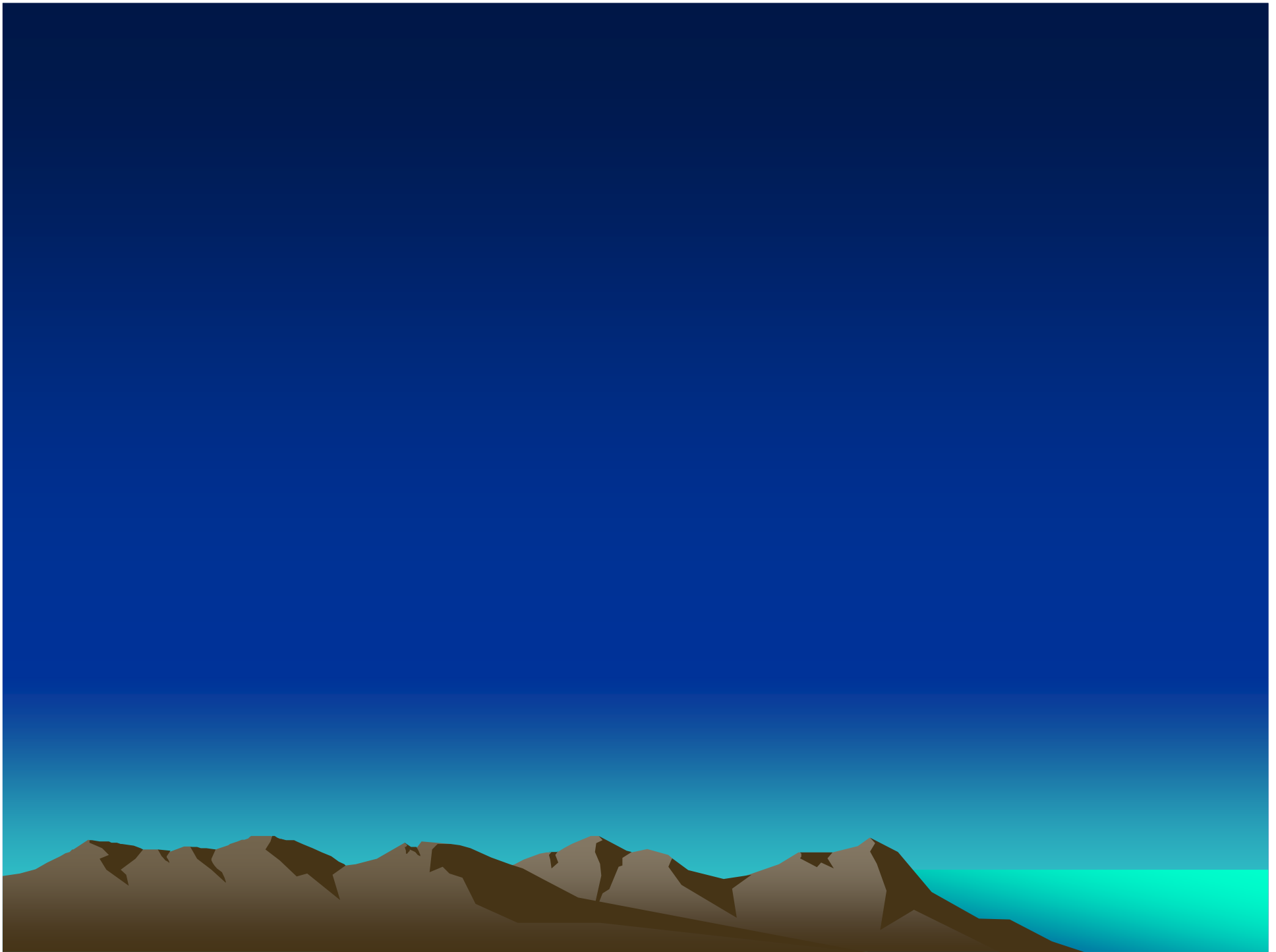


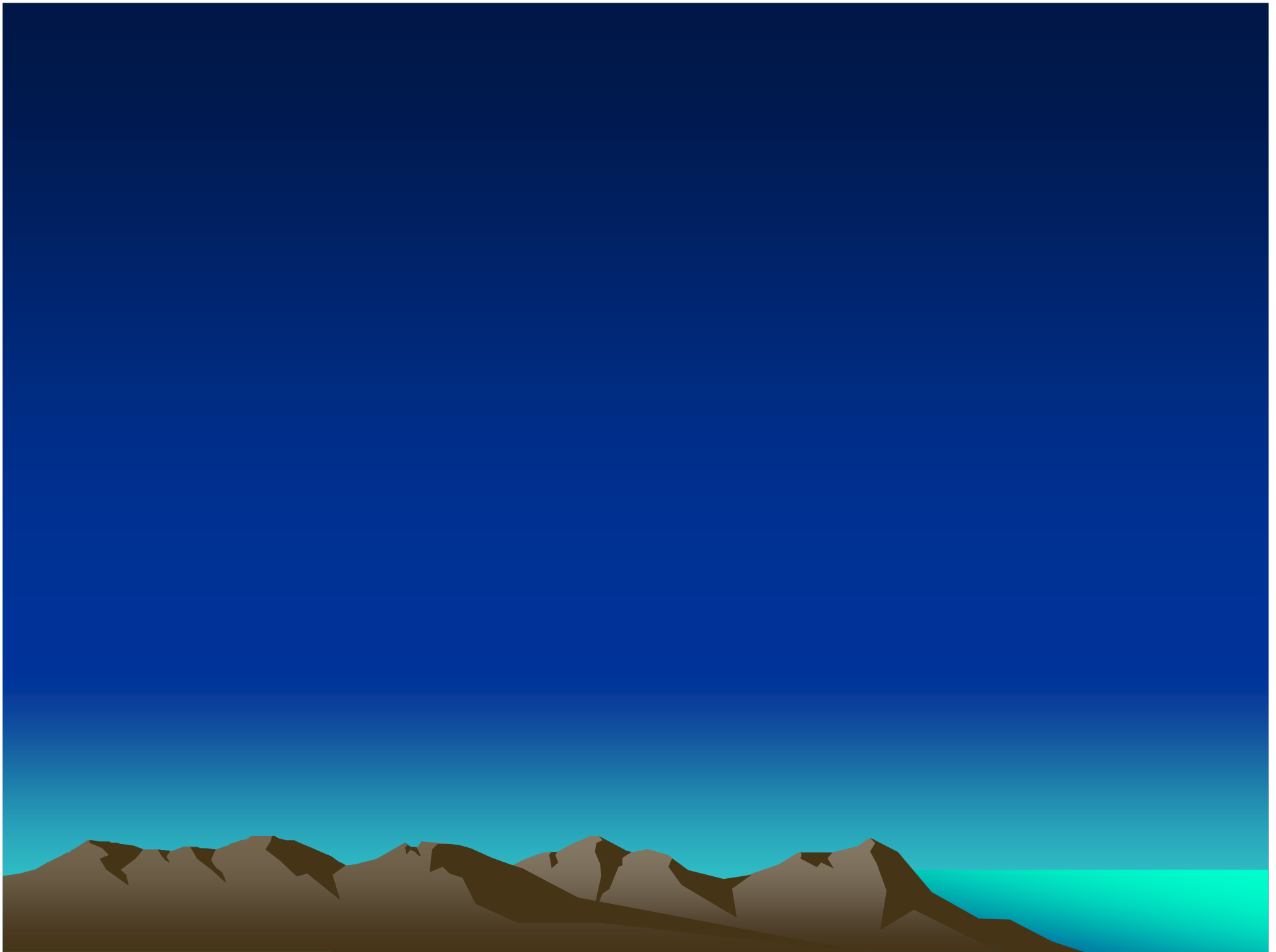


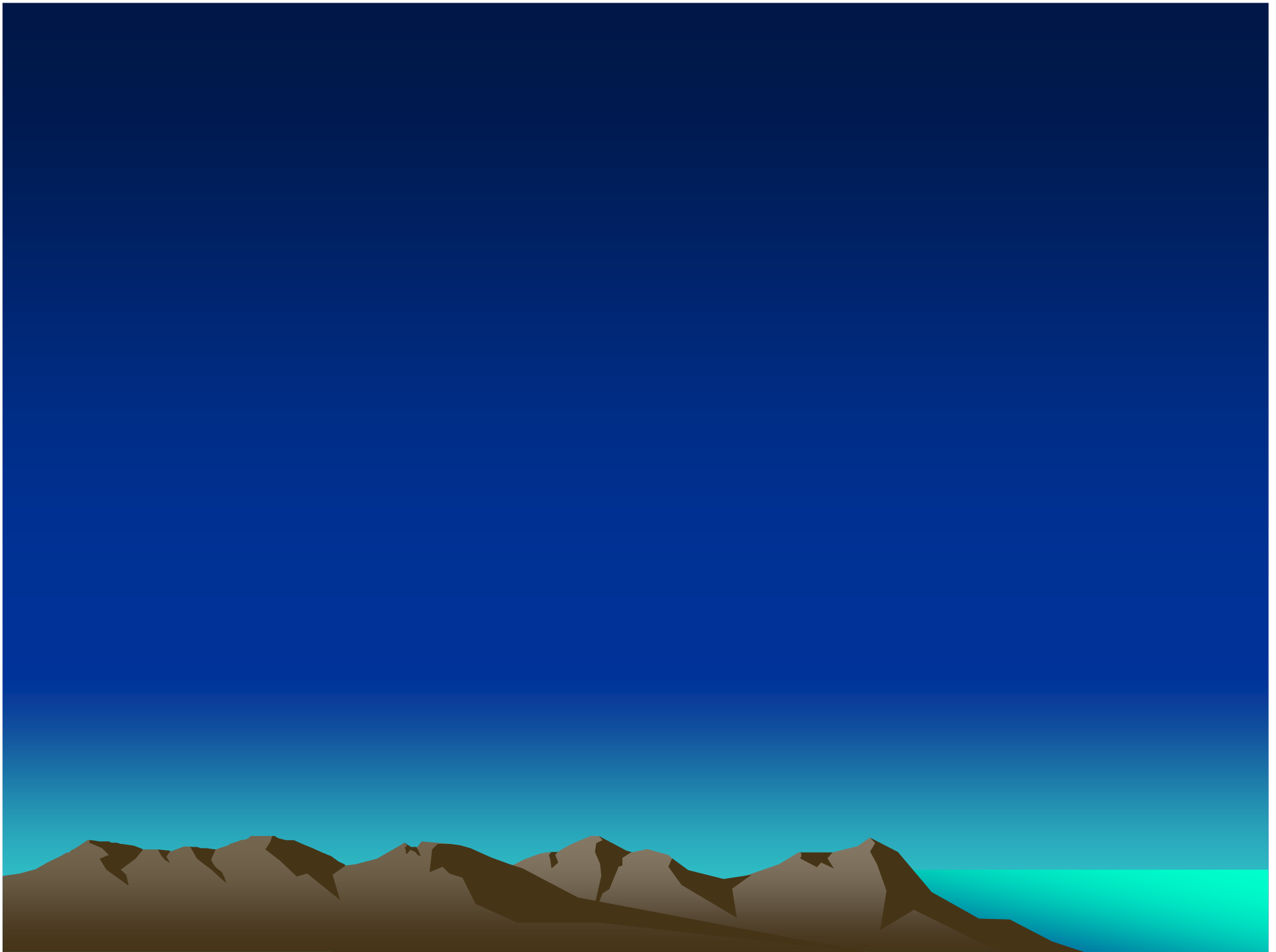


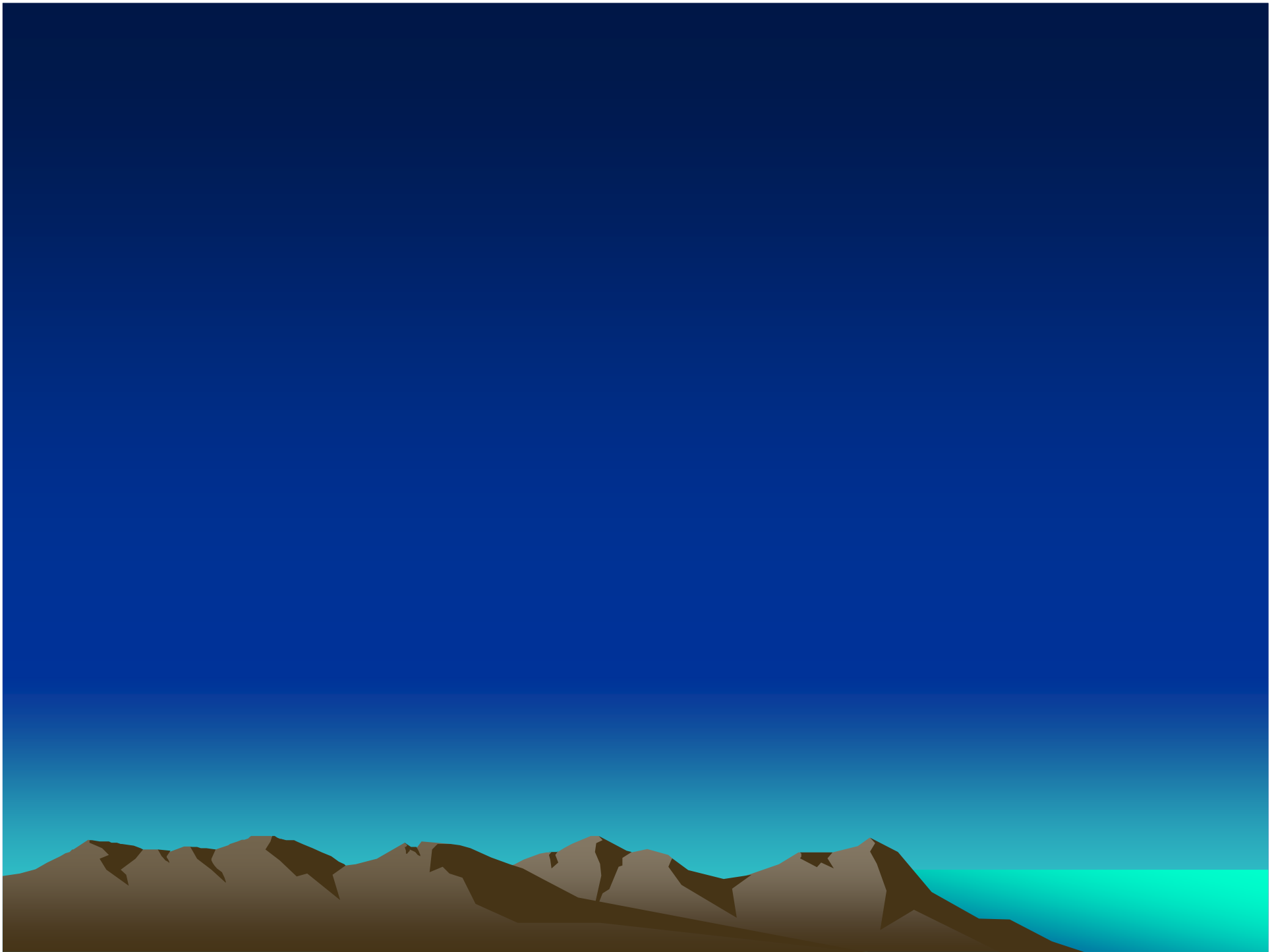






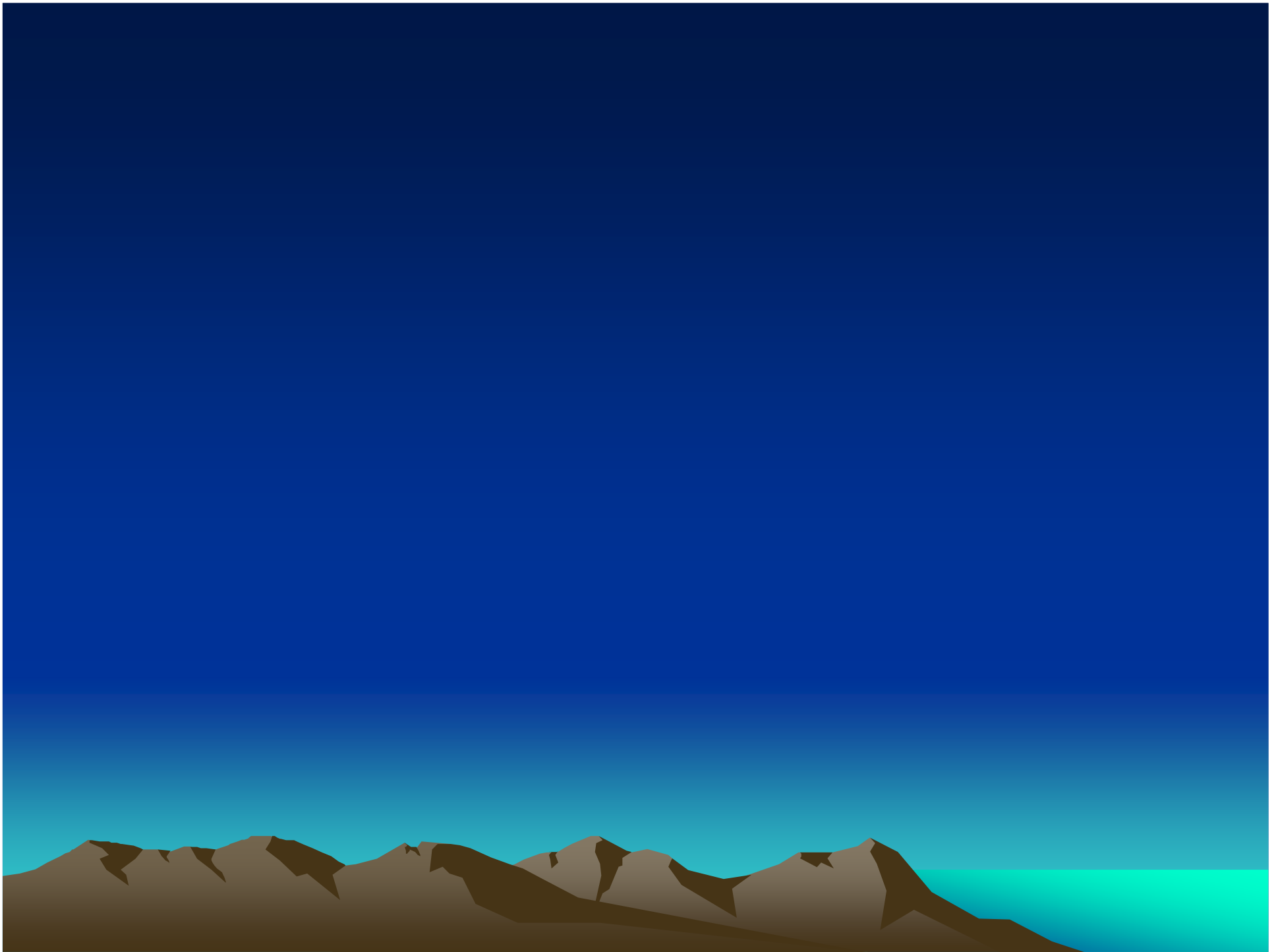


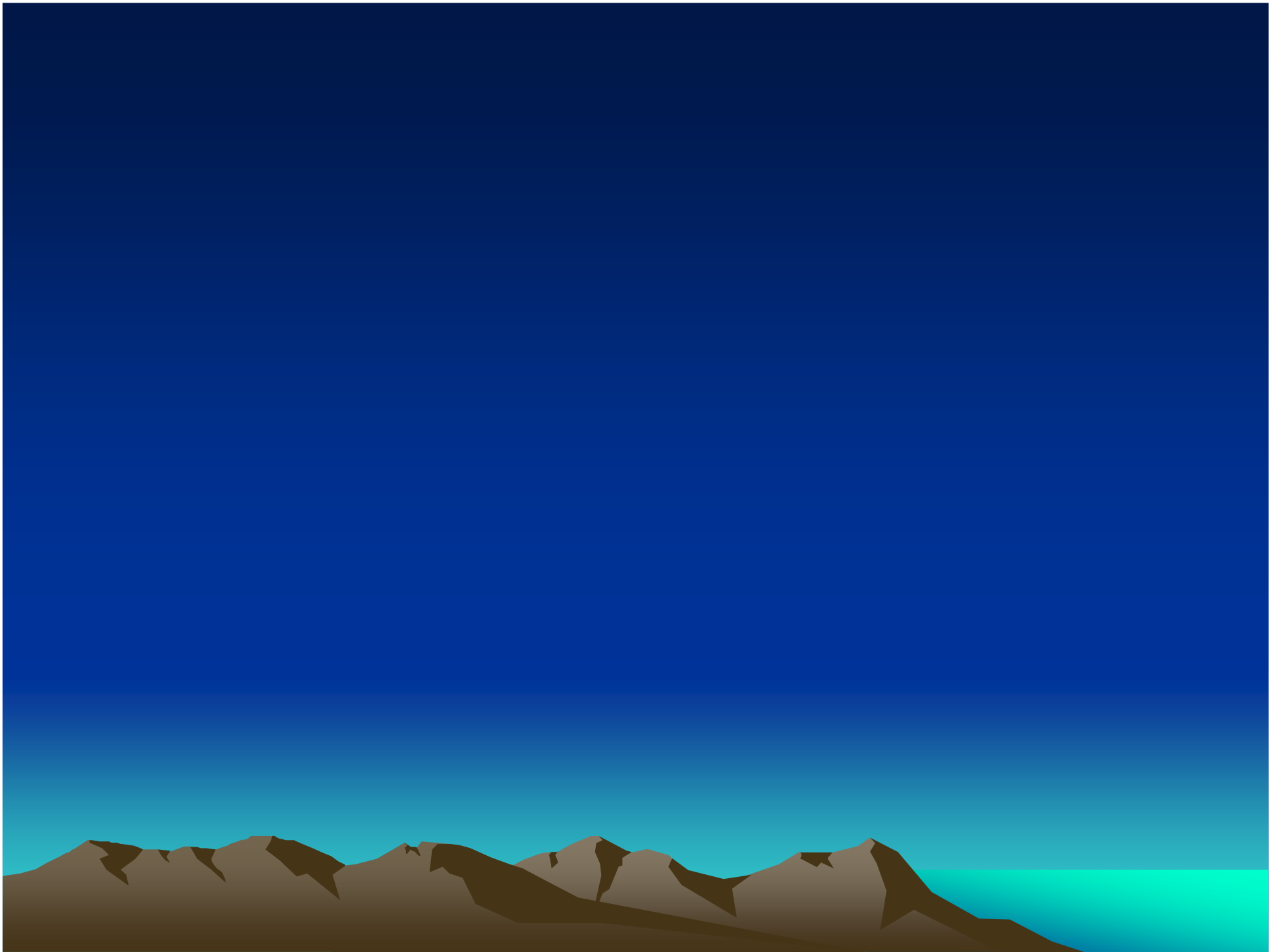


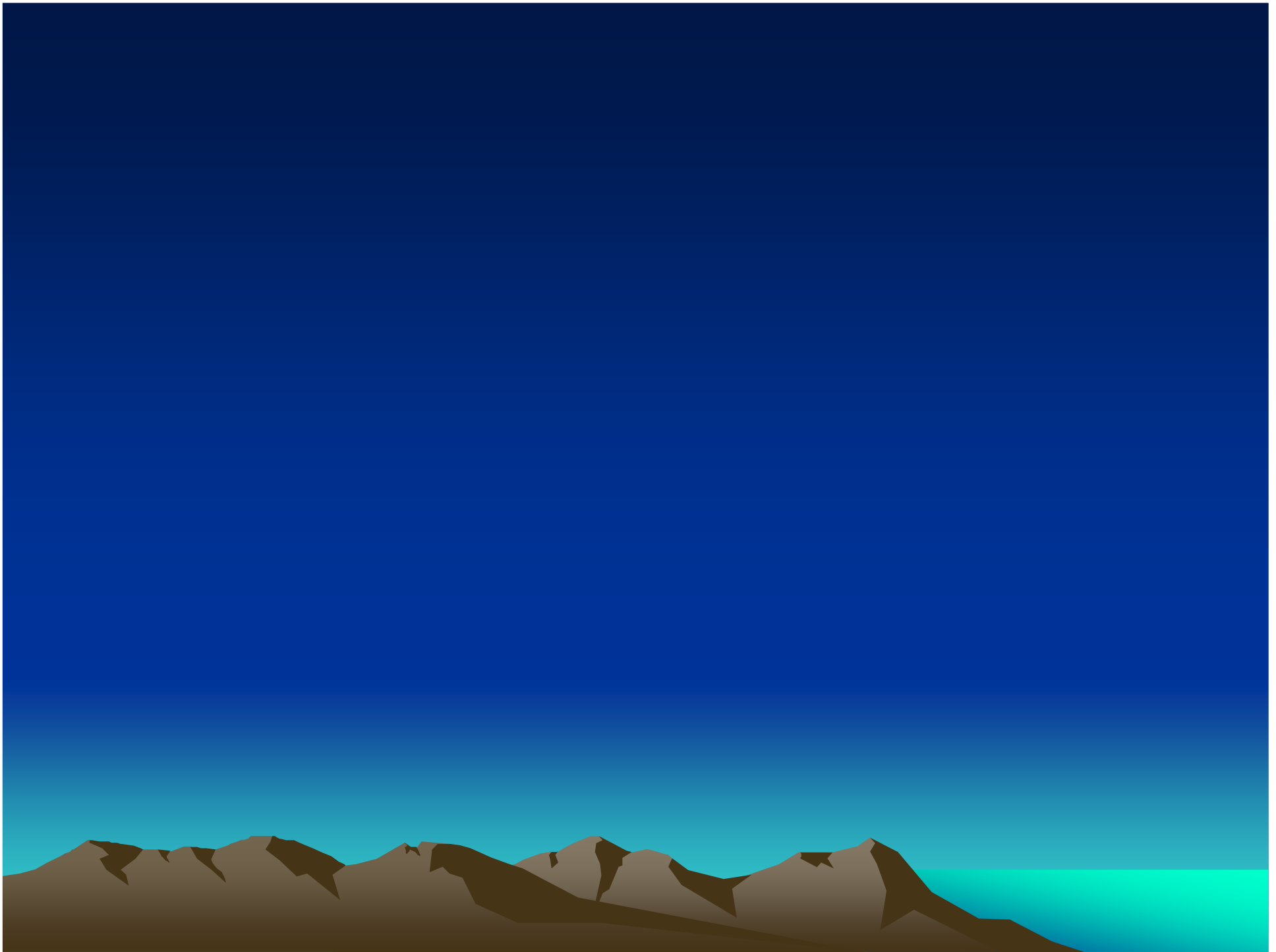


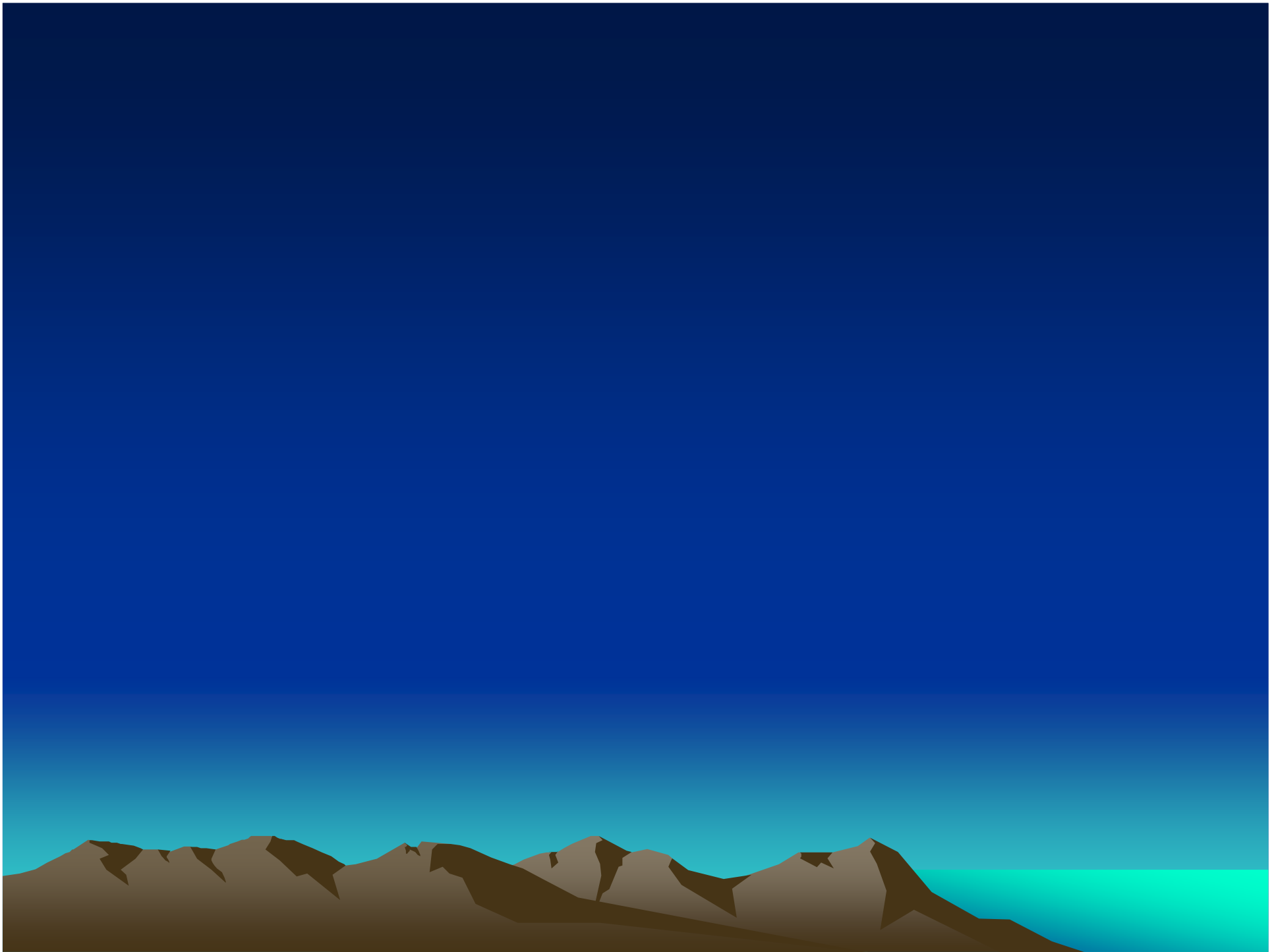
Cold Rolling

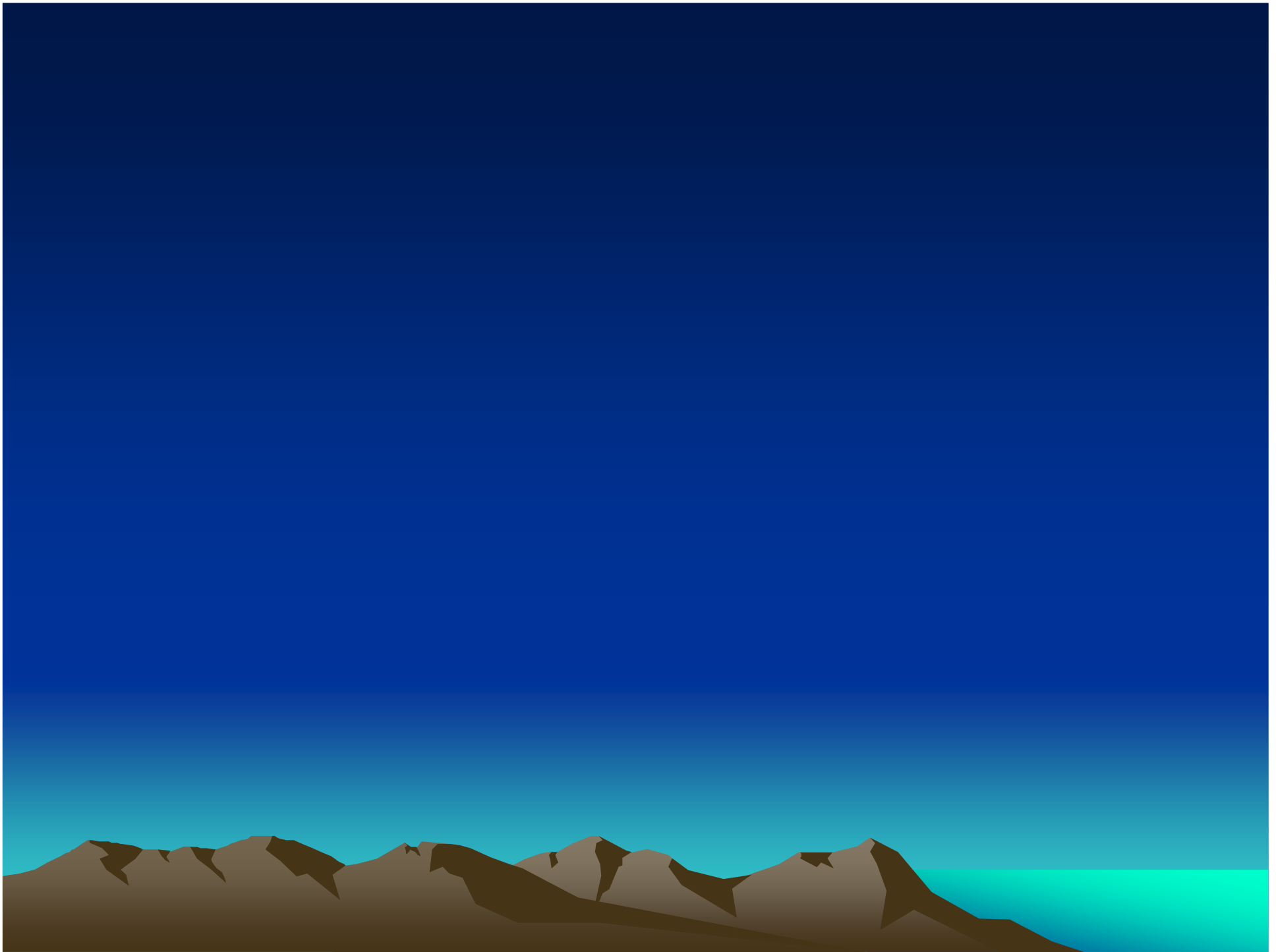


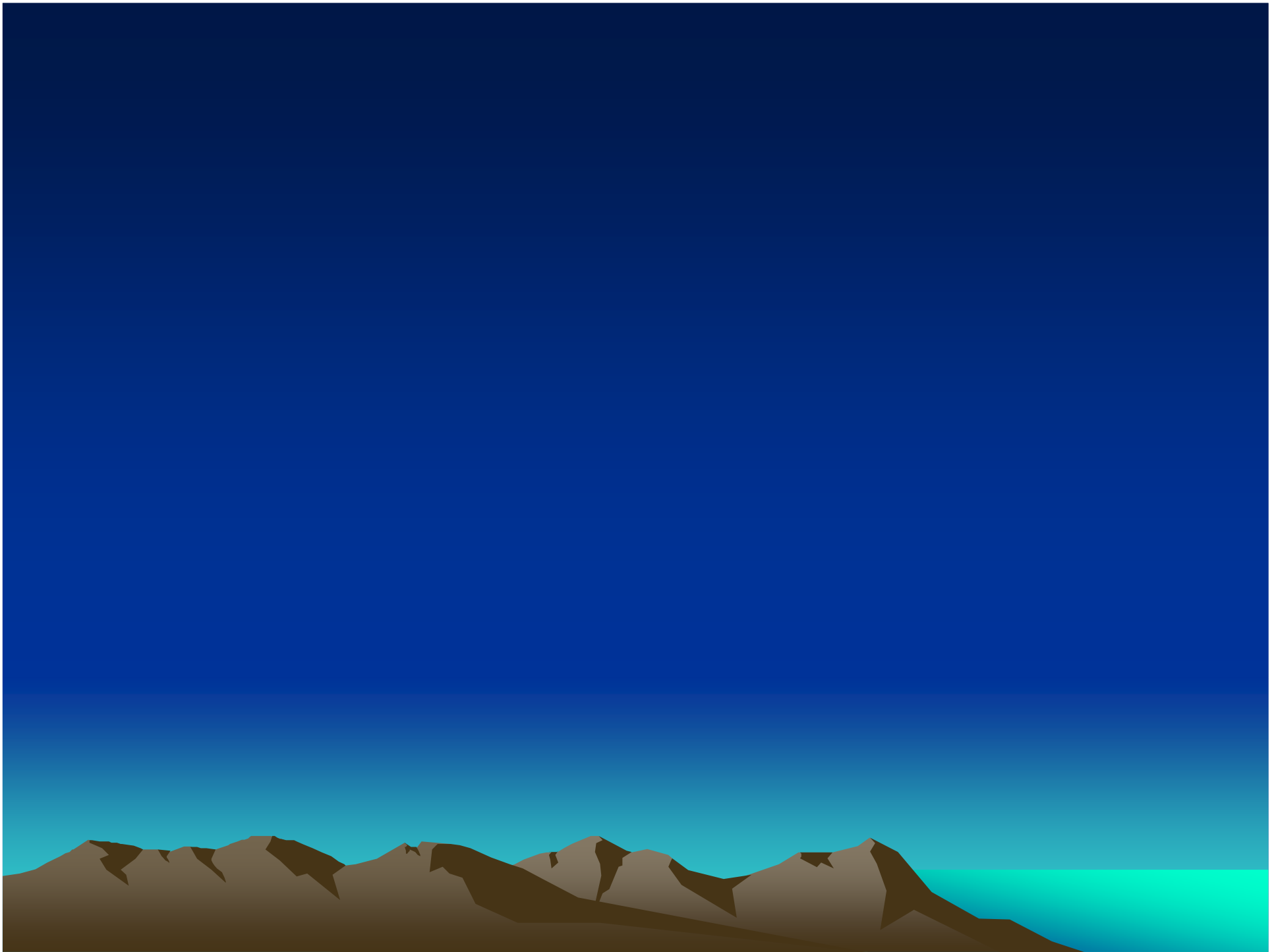


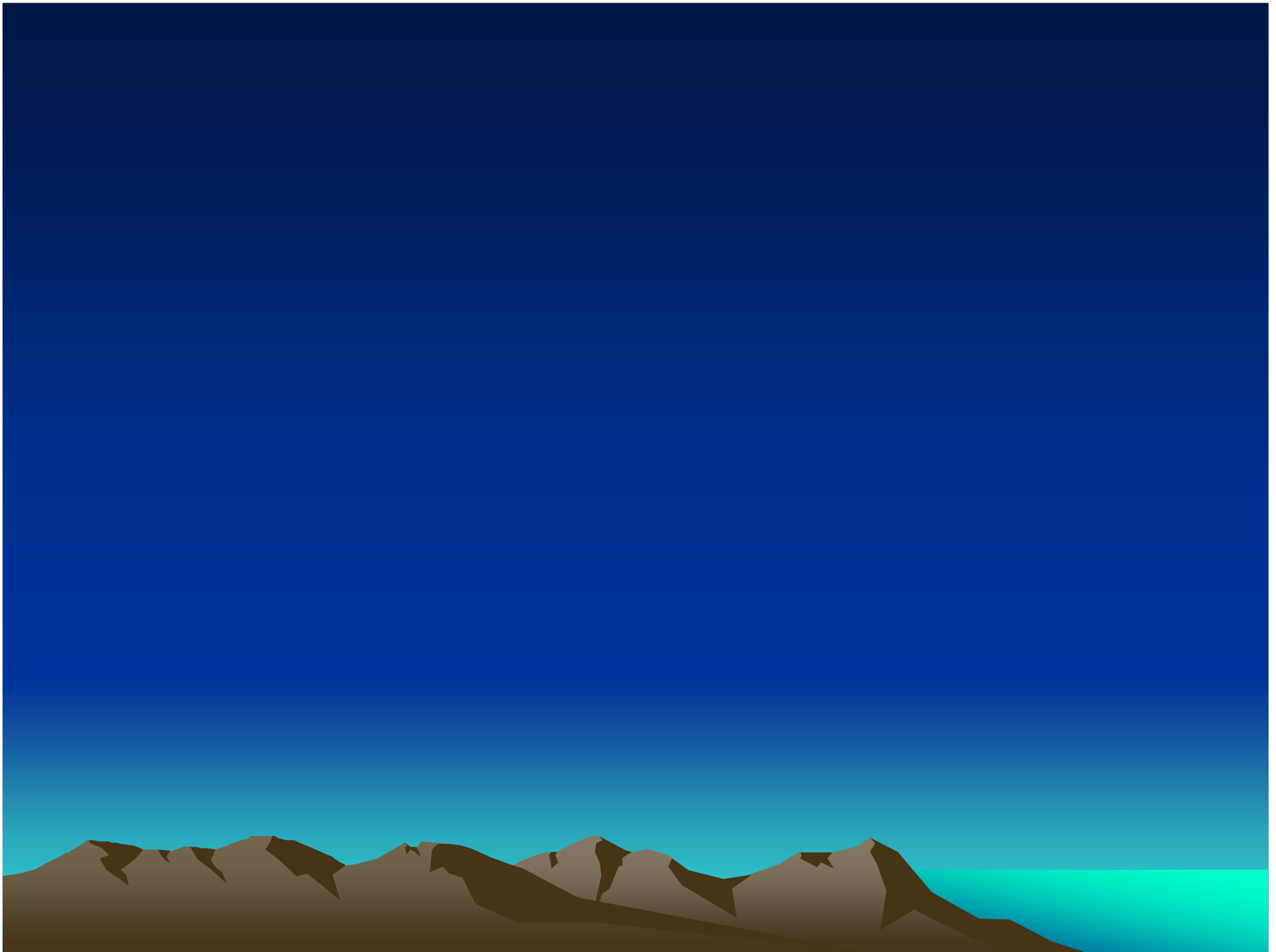


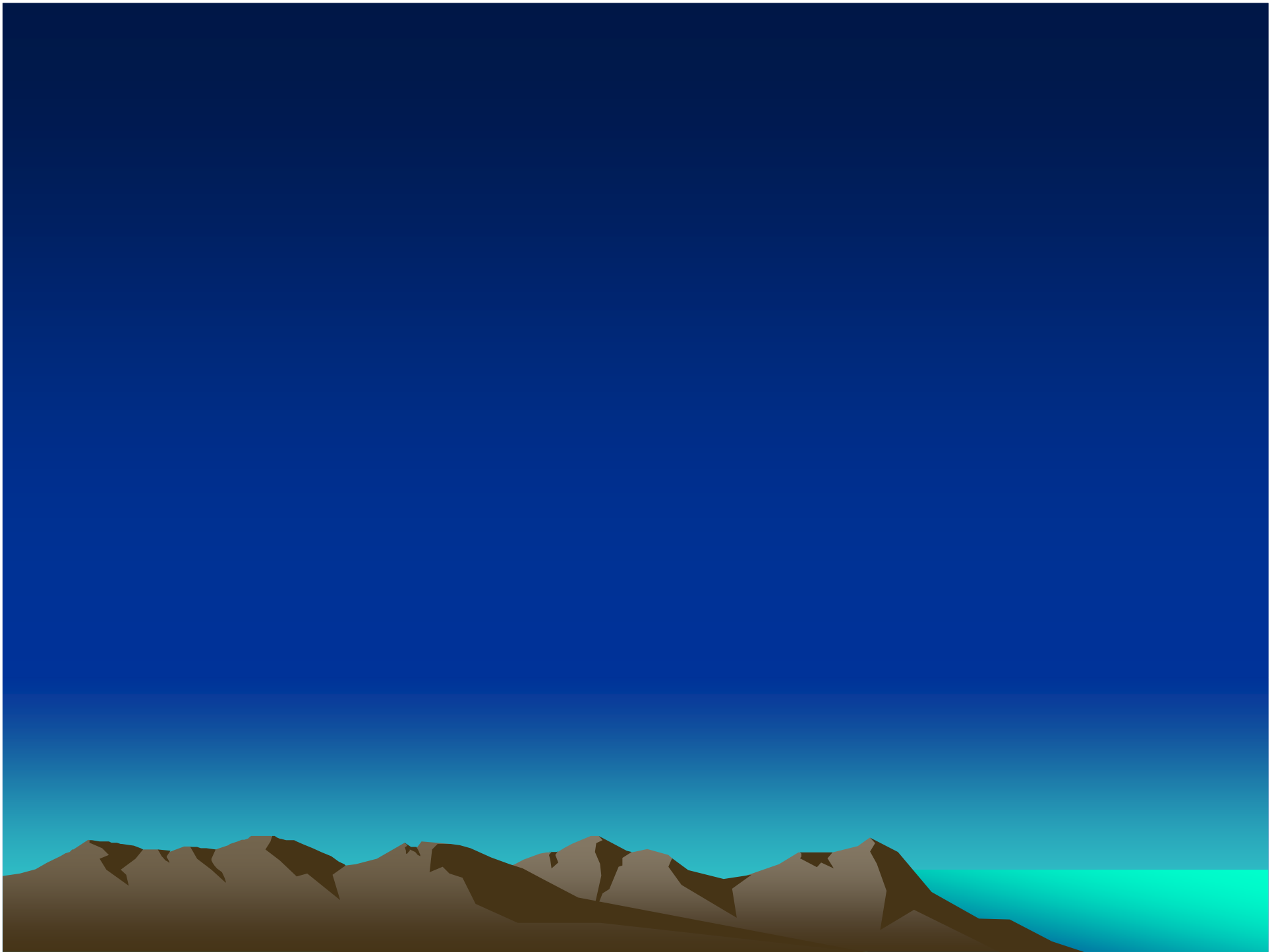


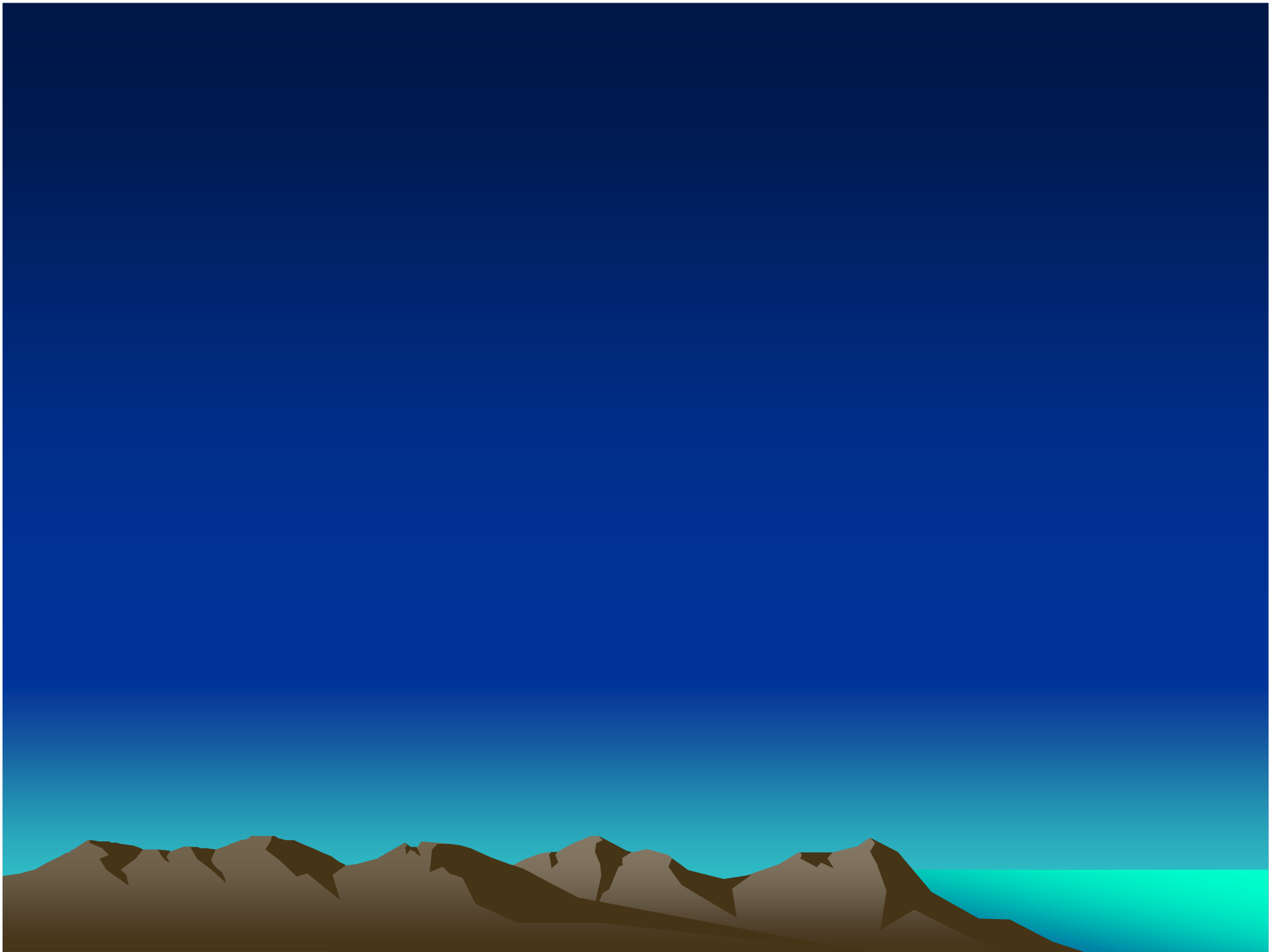


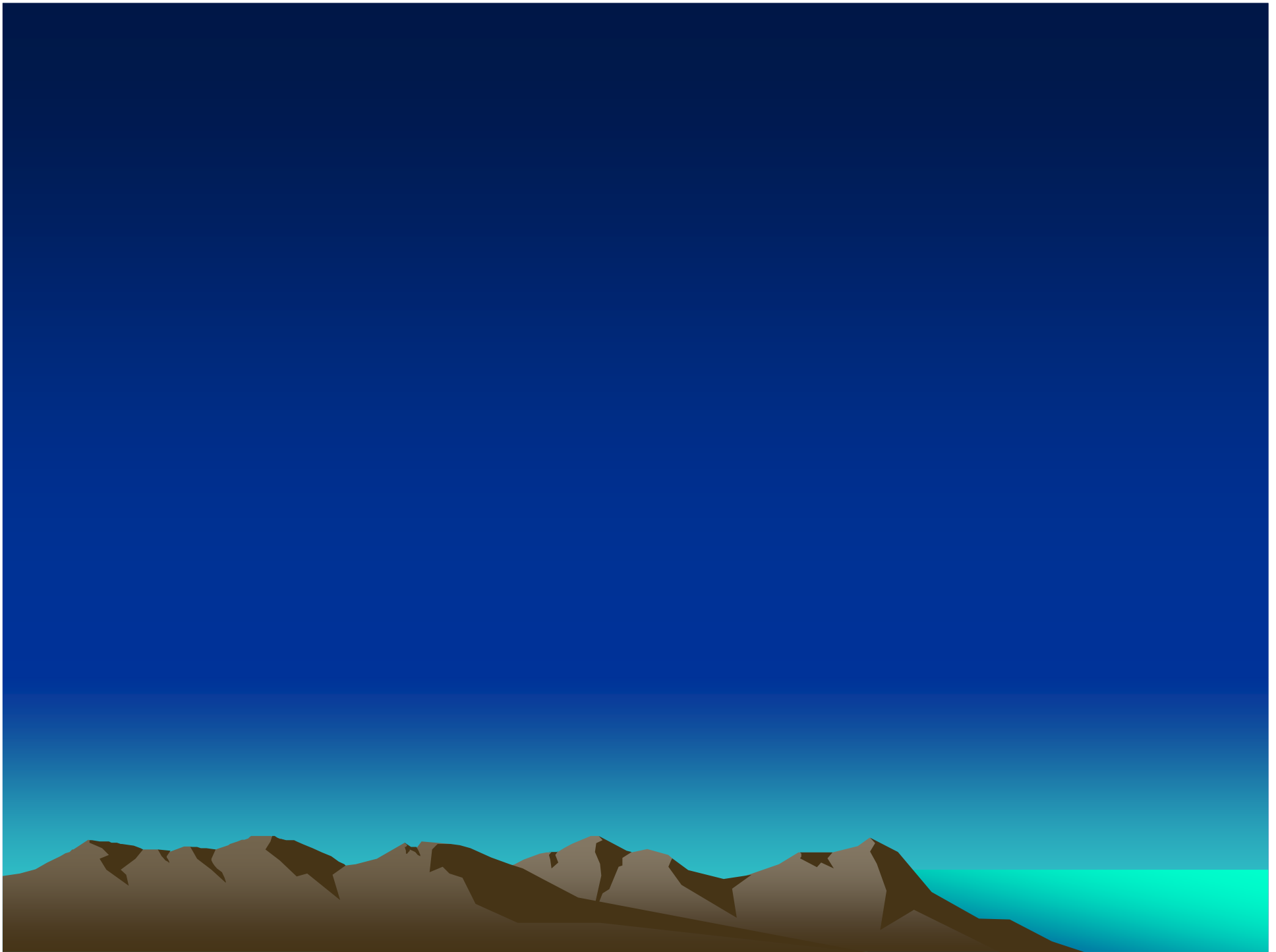






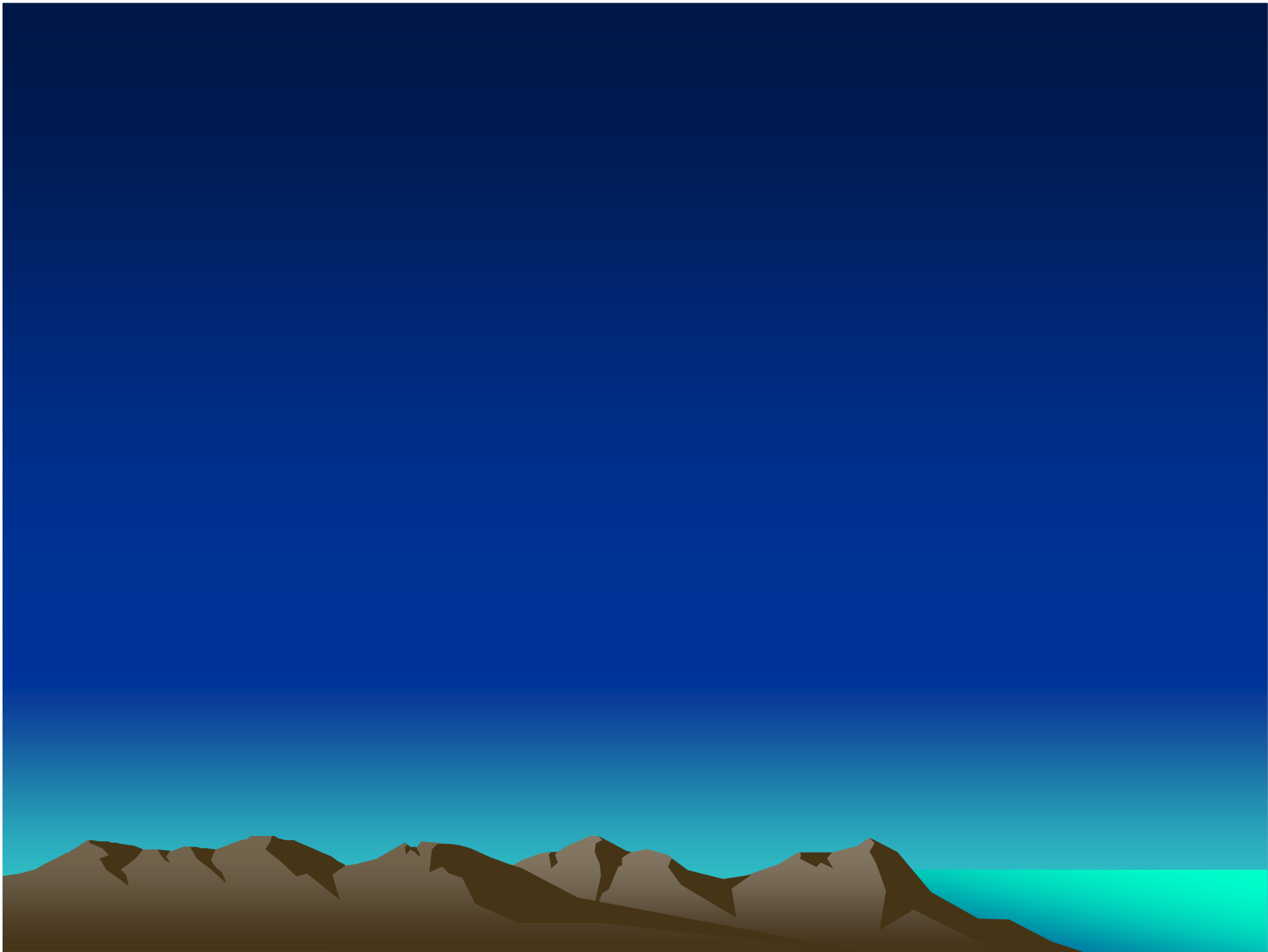


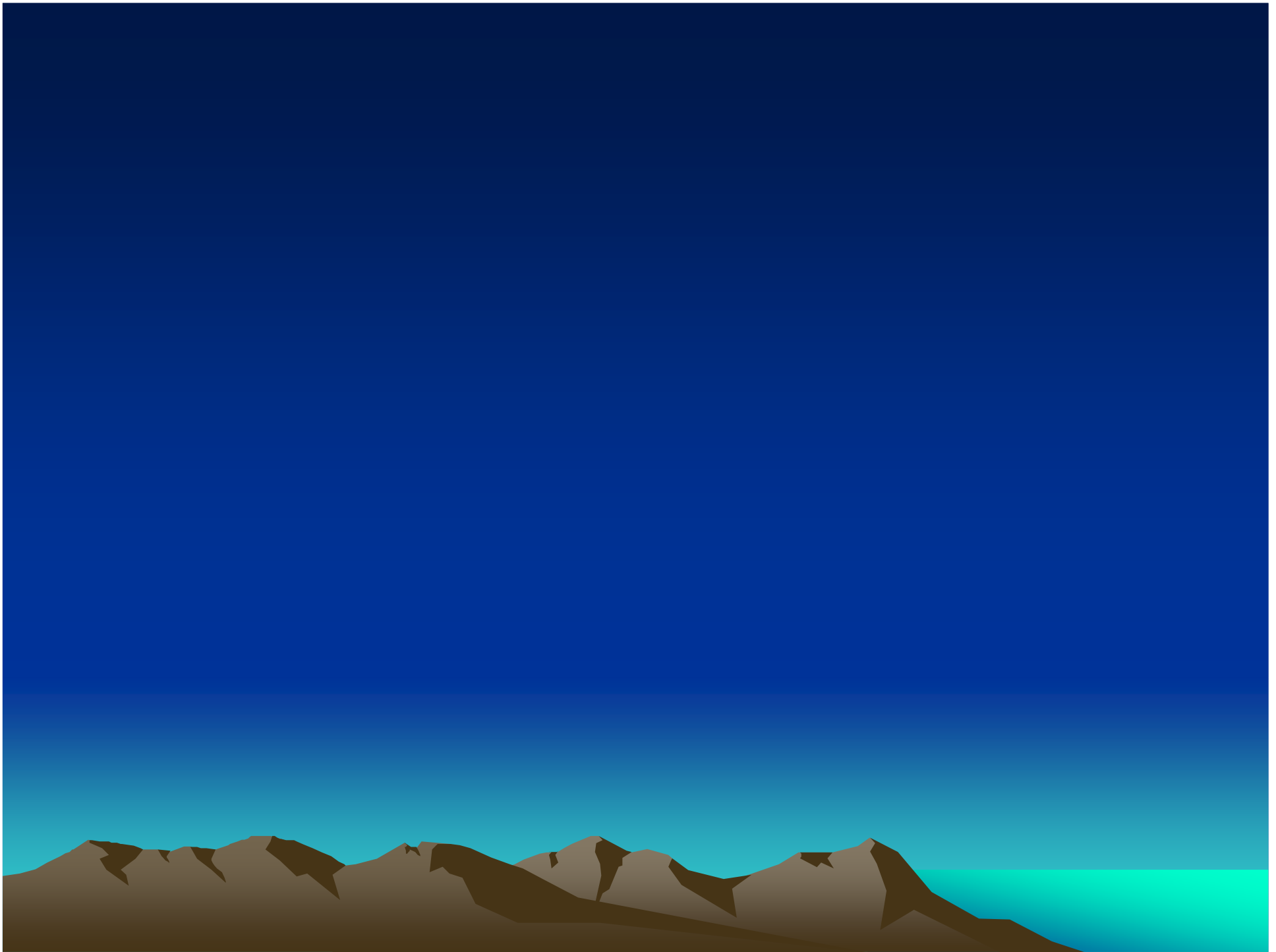


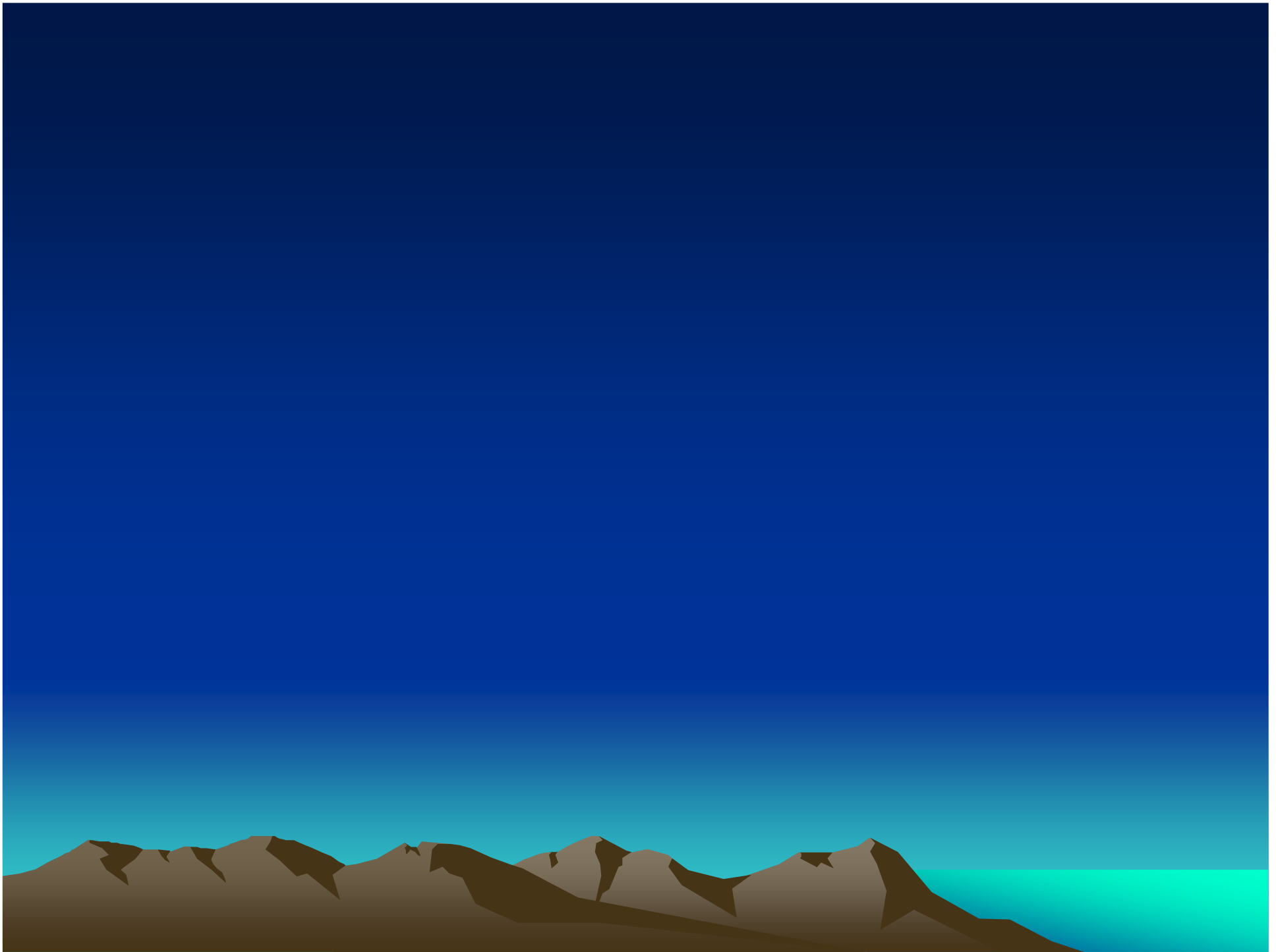


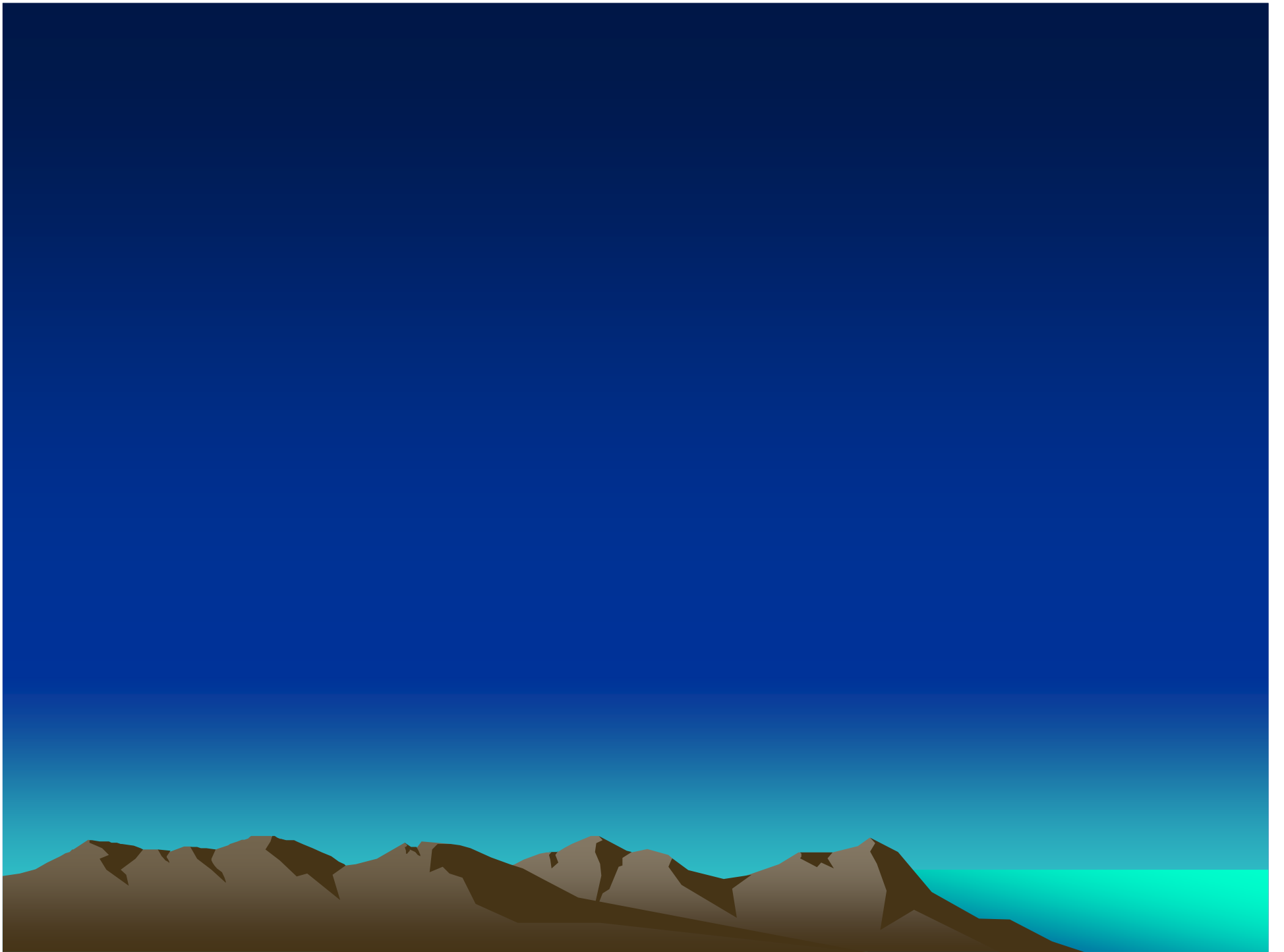
Strip Processing

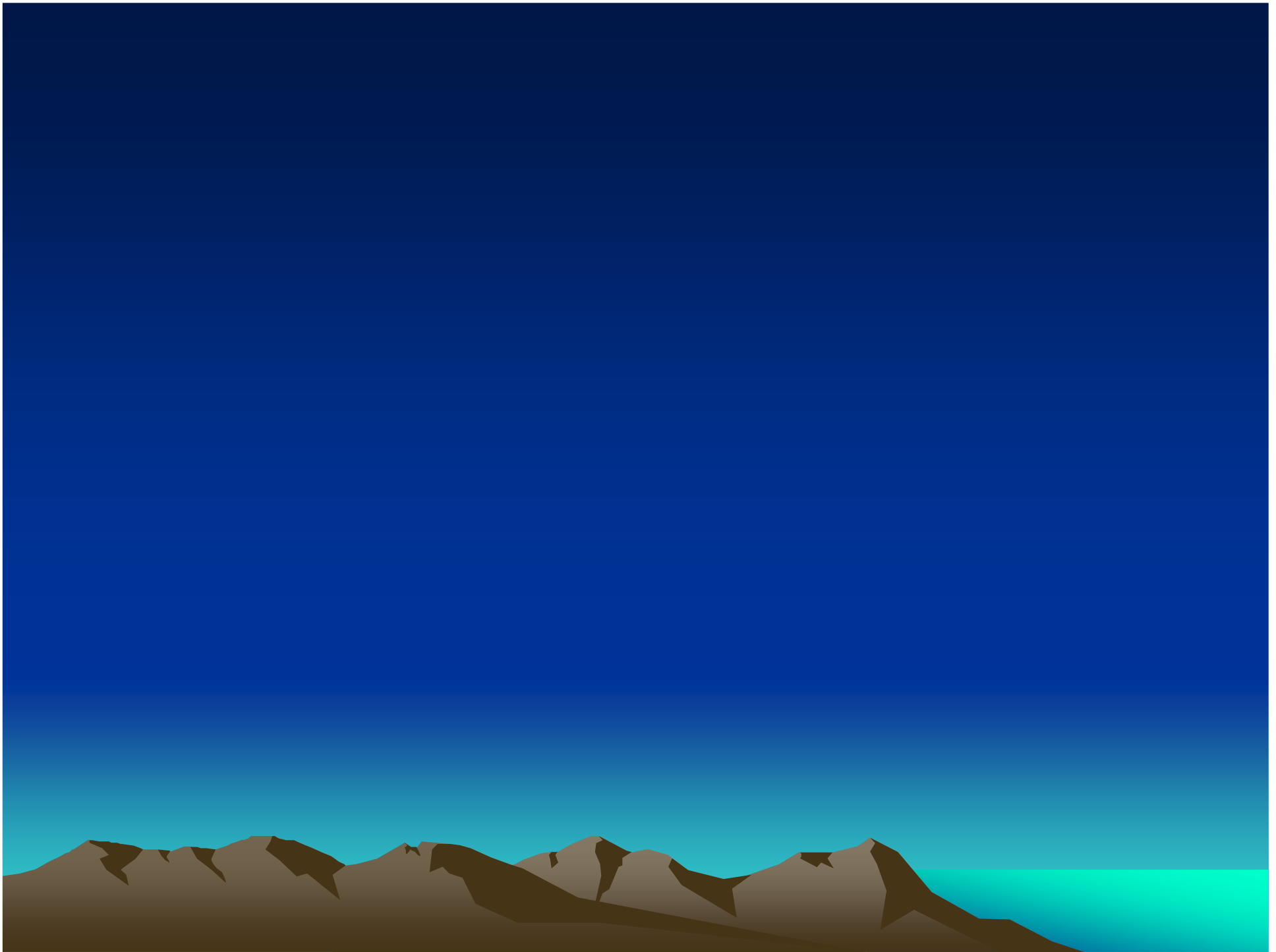


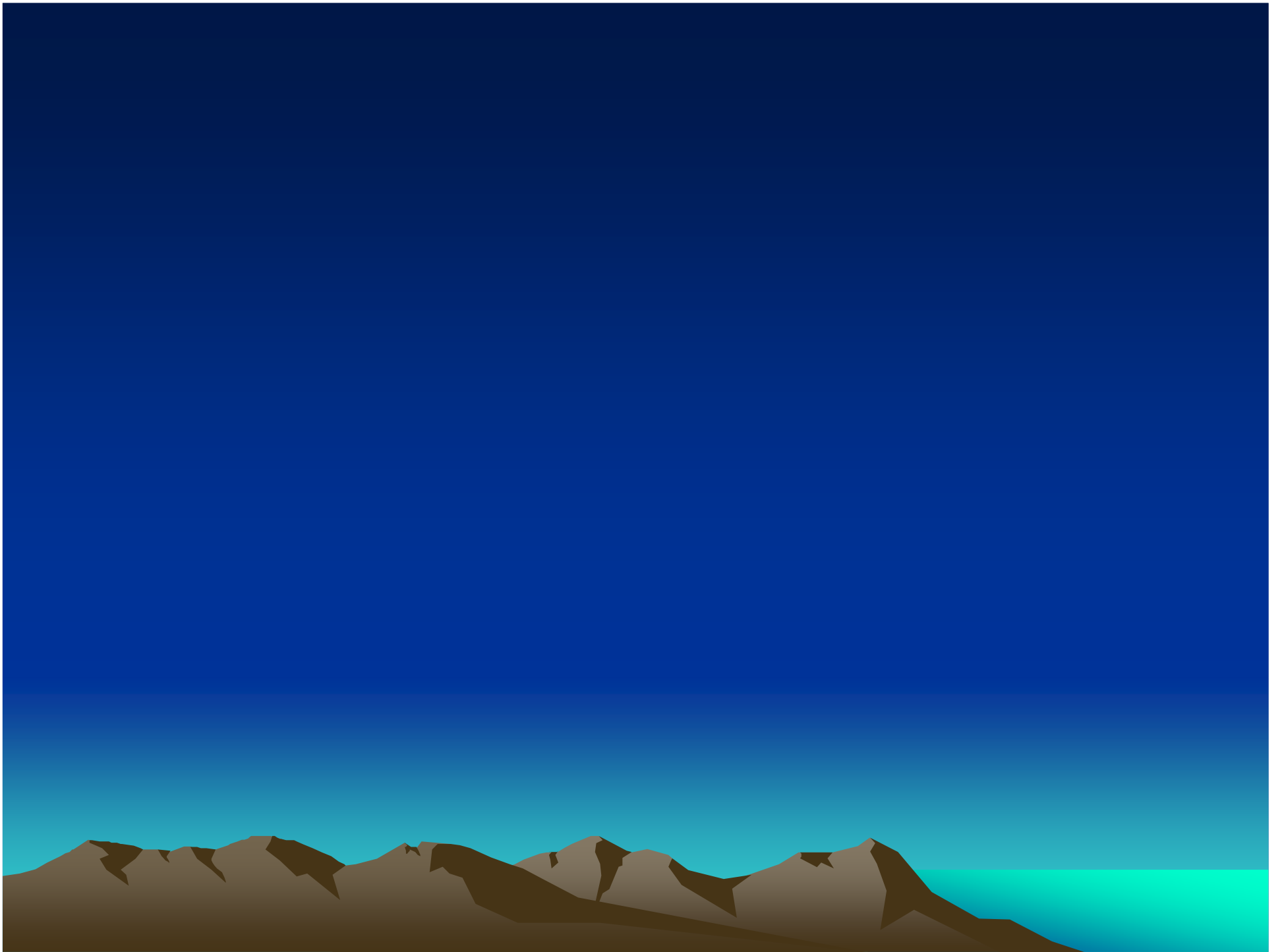


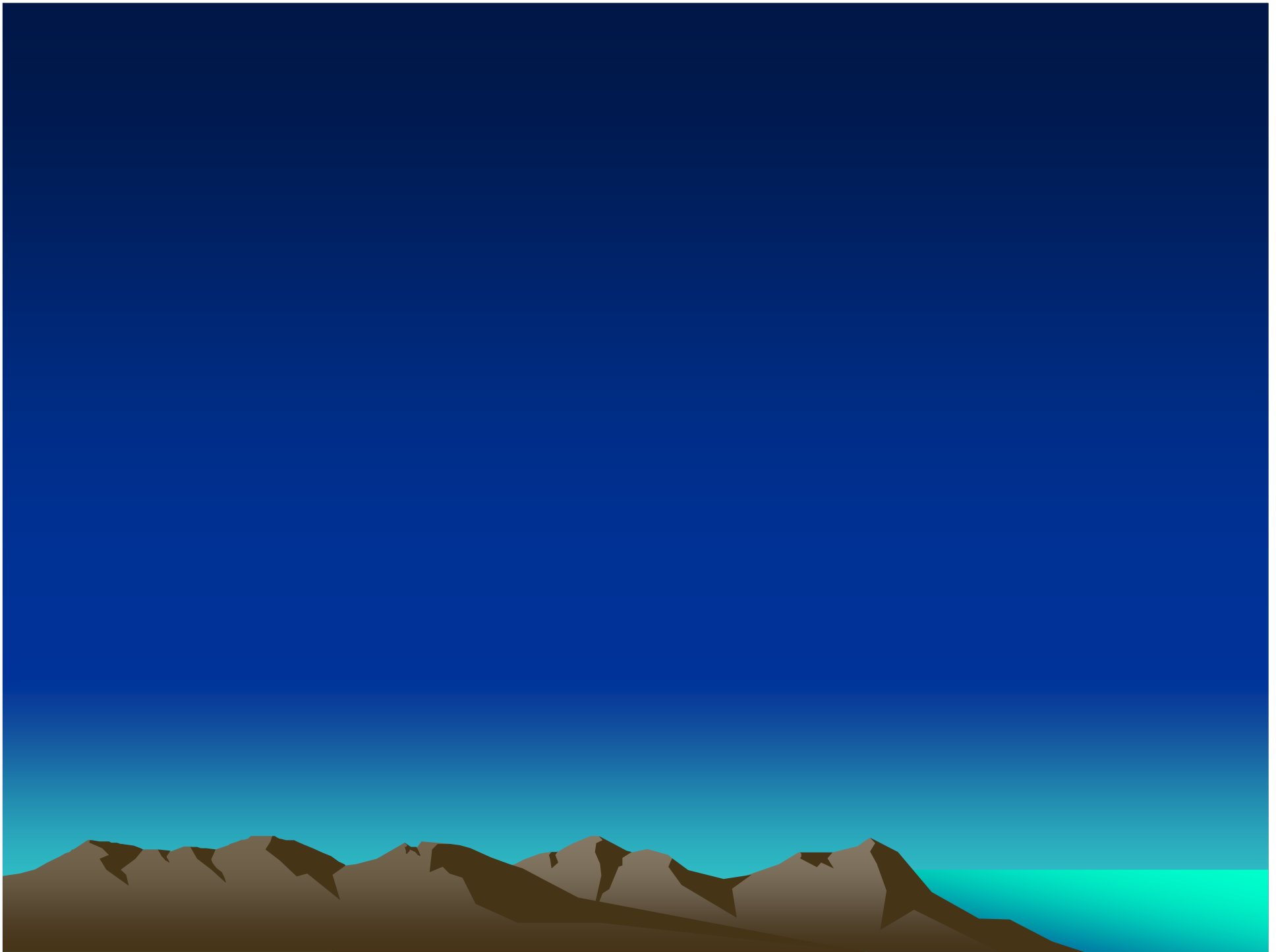


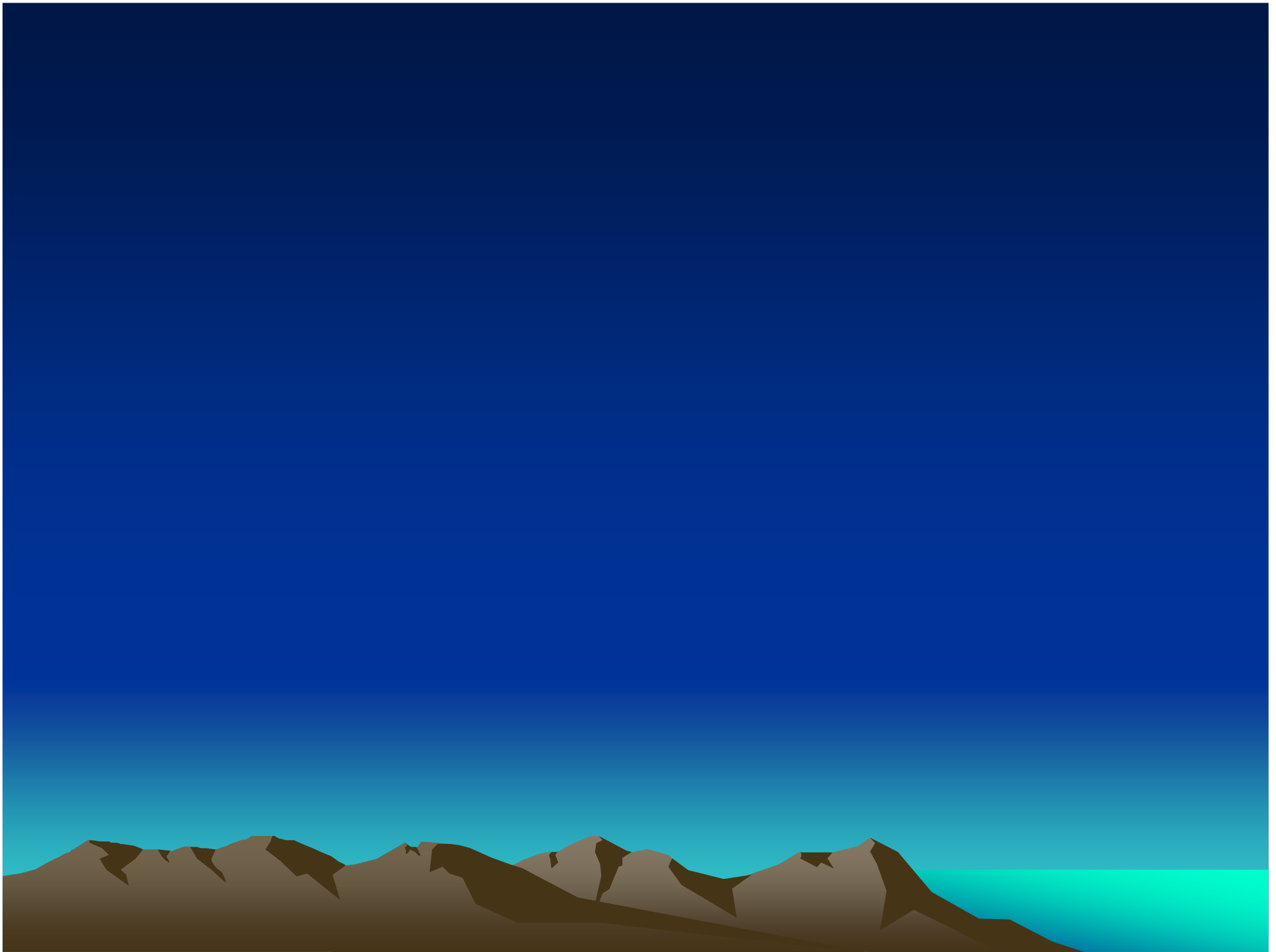


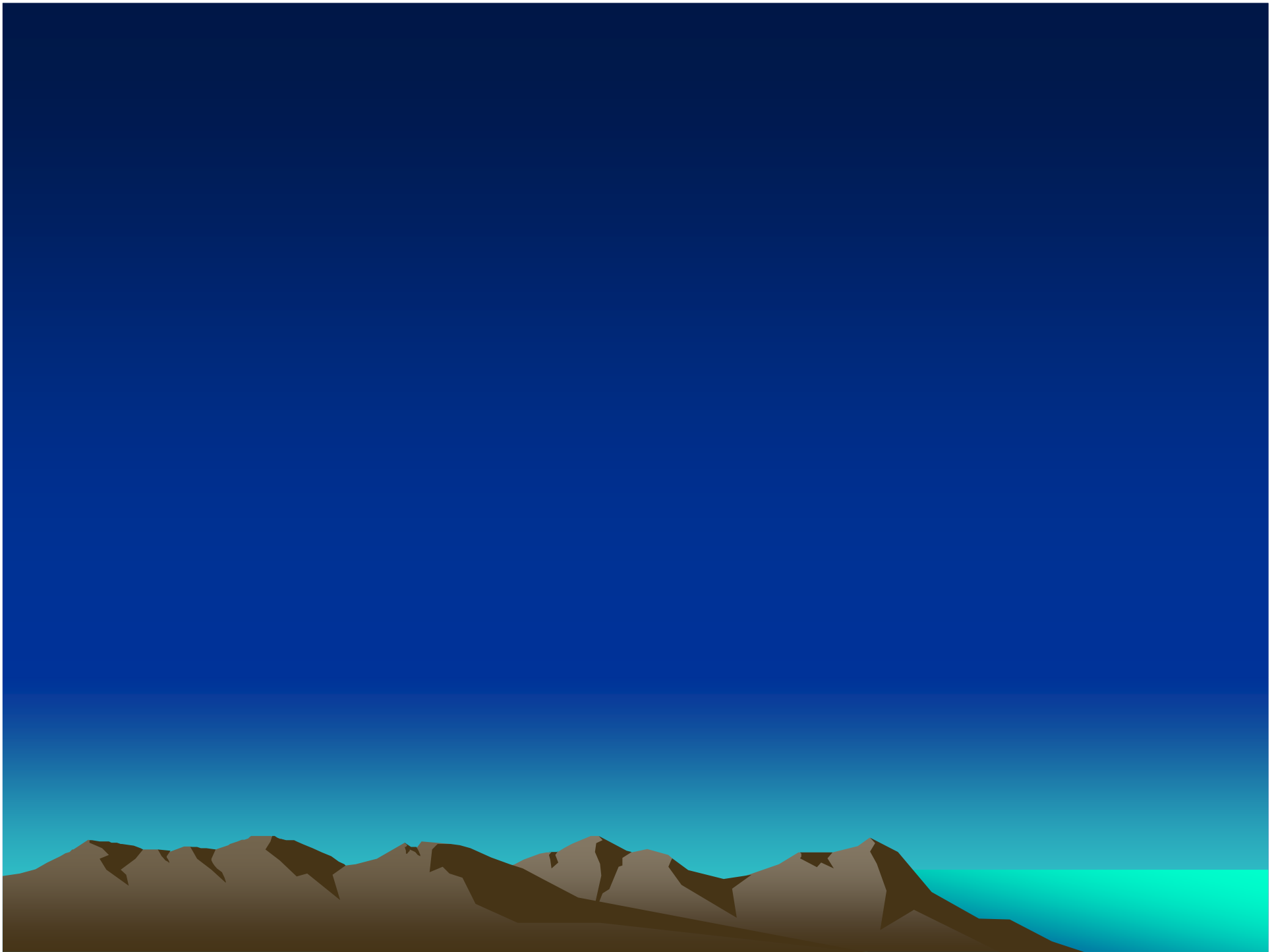


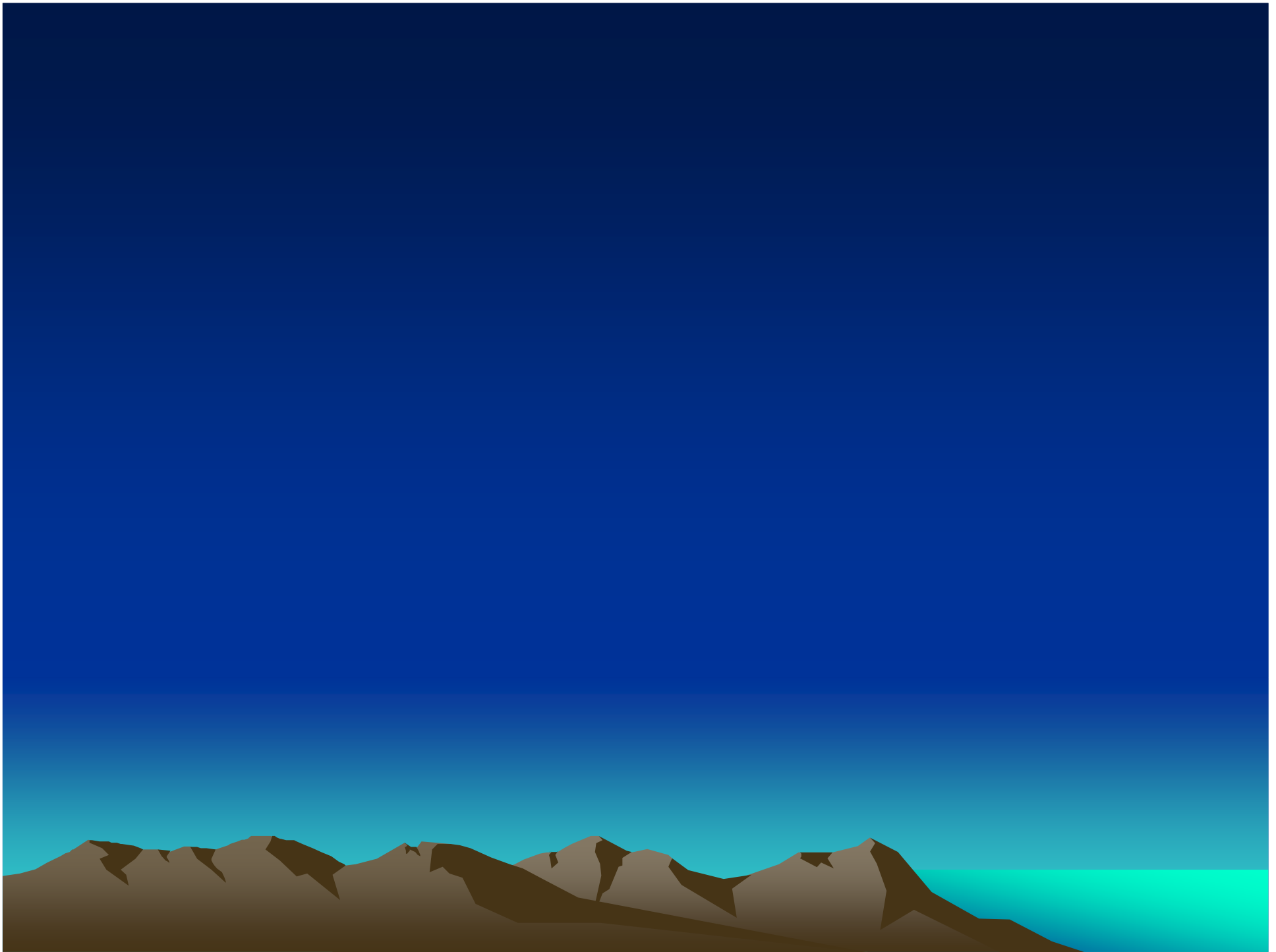


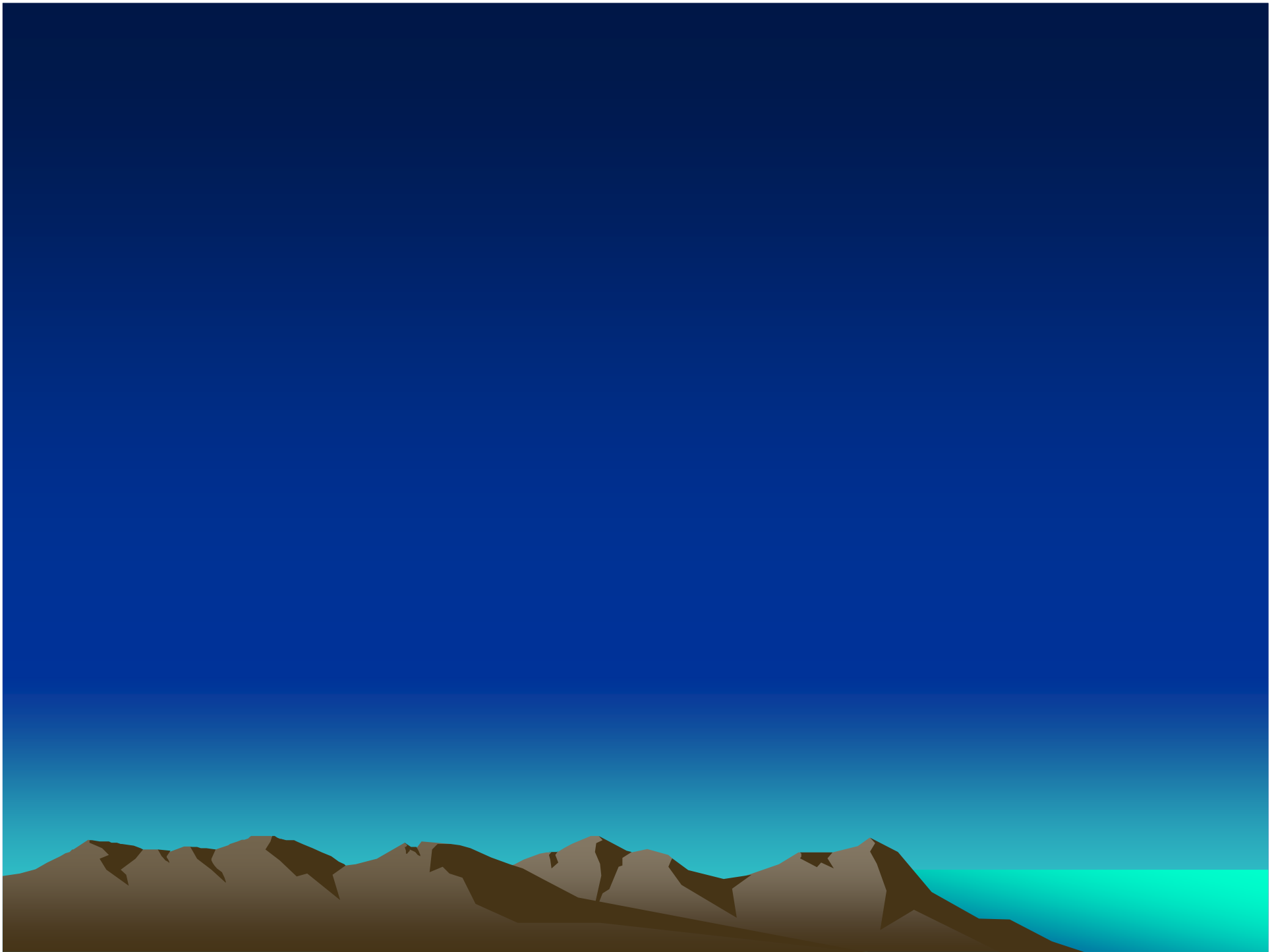


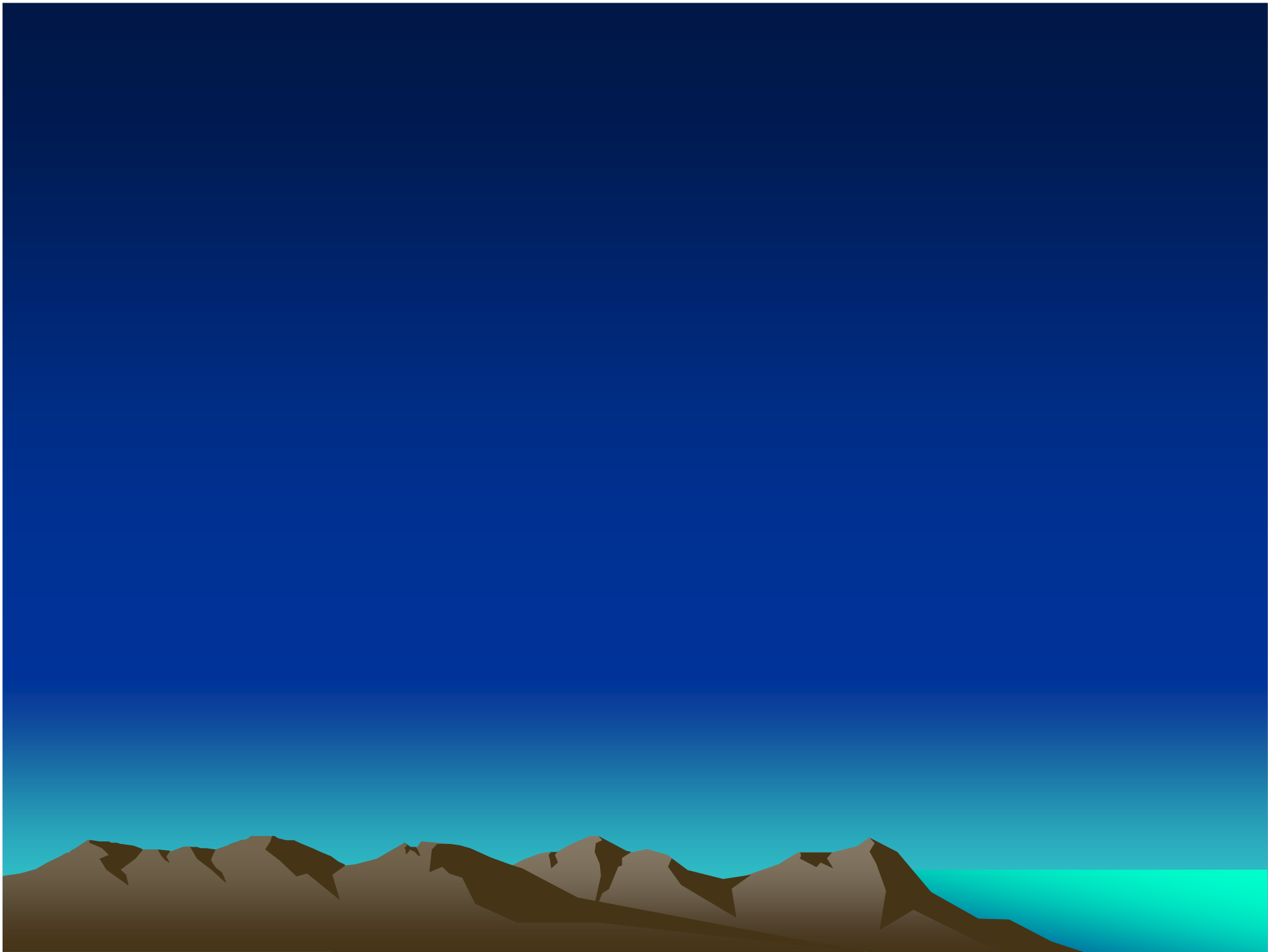


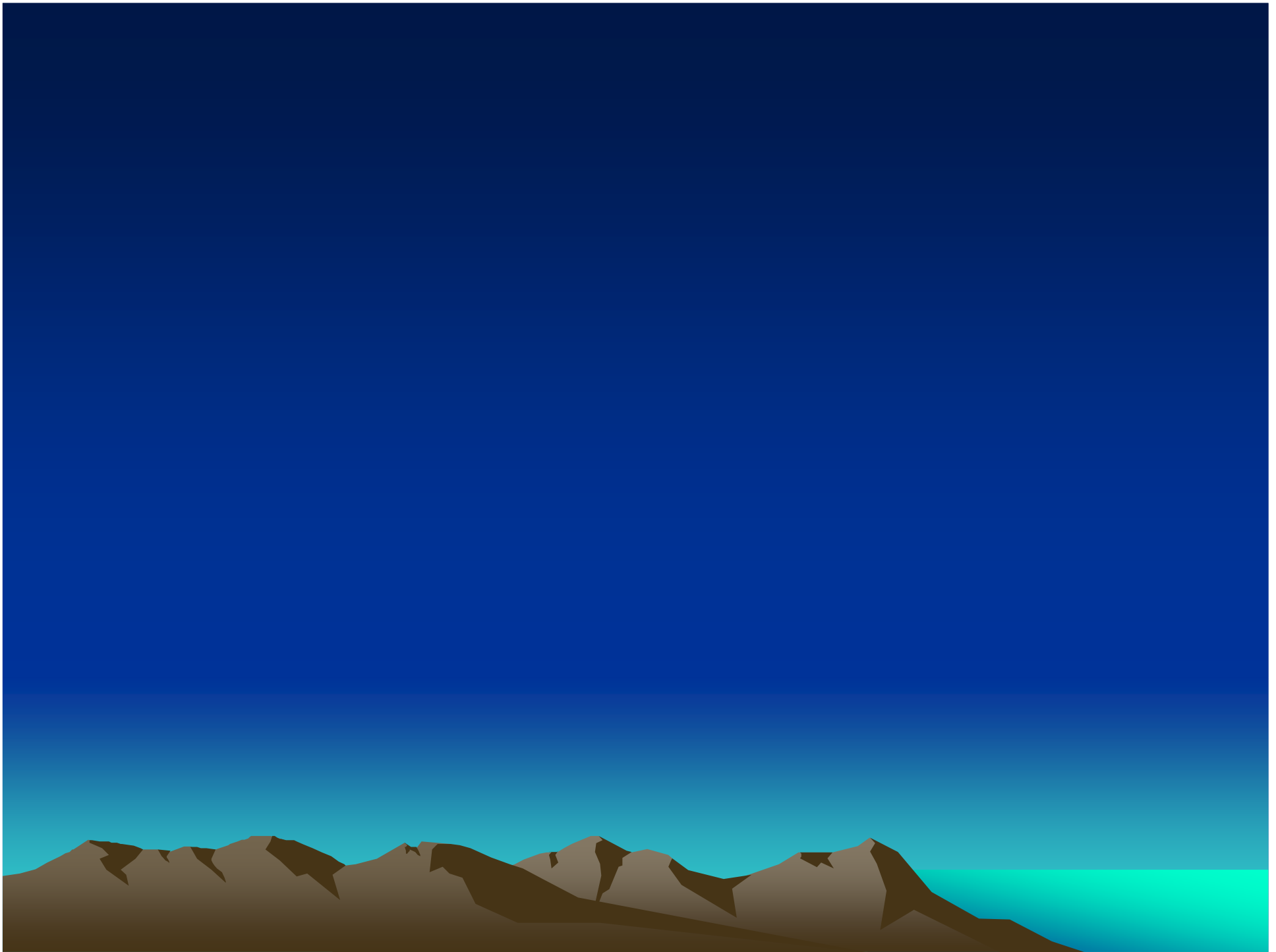






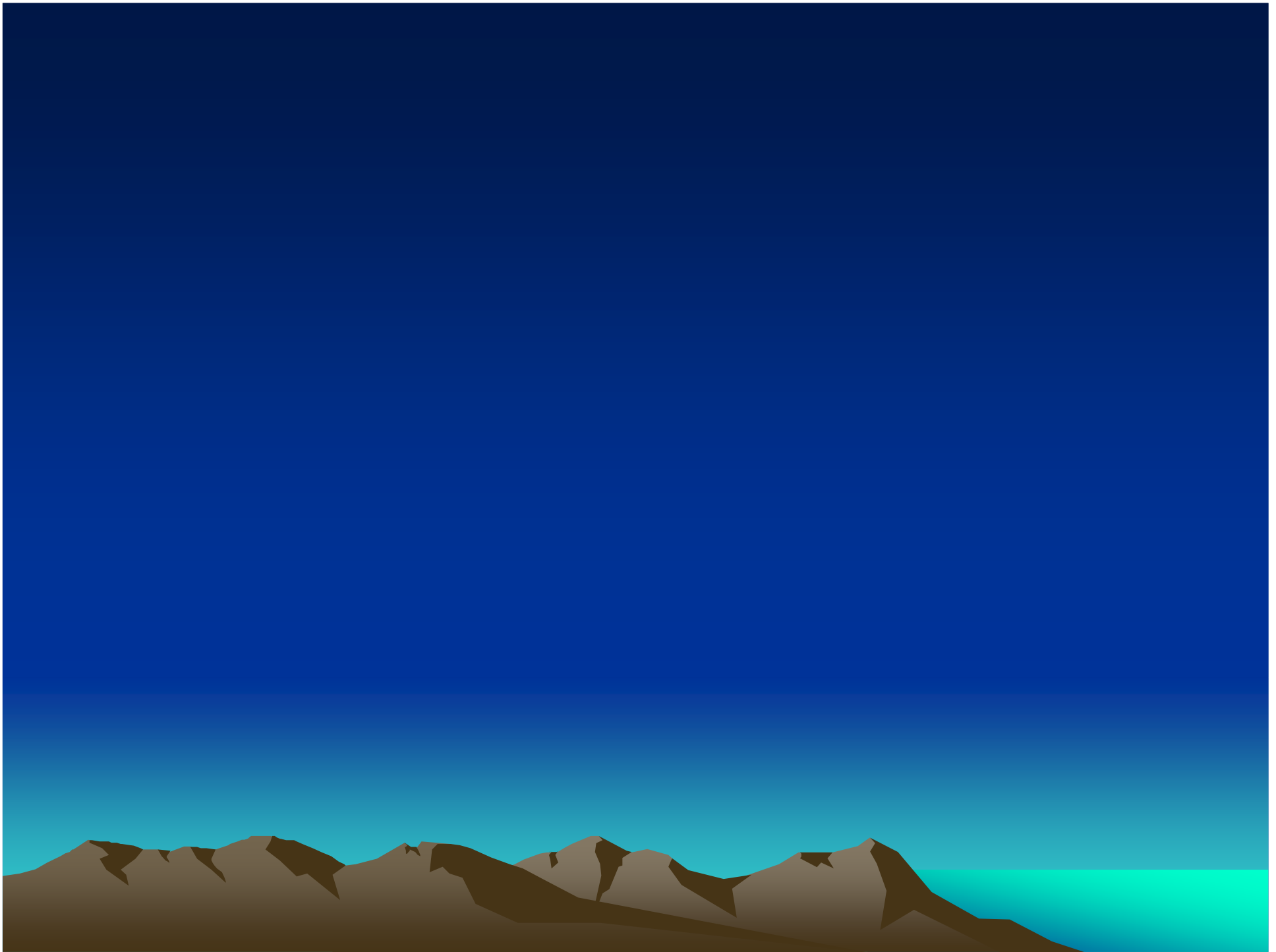






- Processes > Iron Making



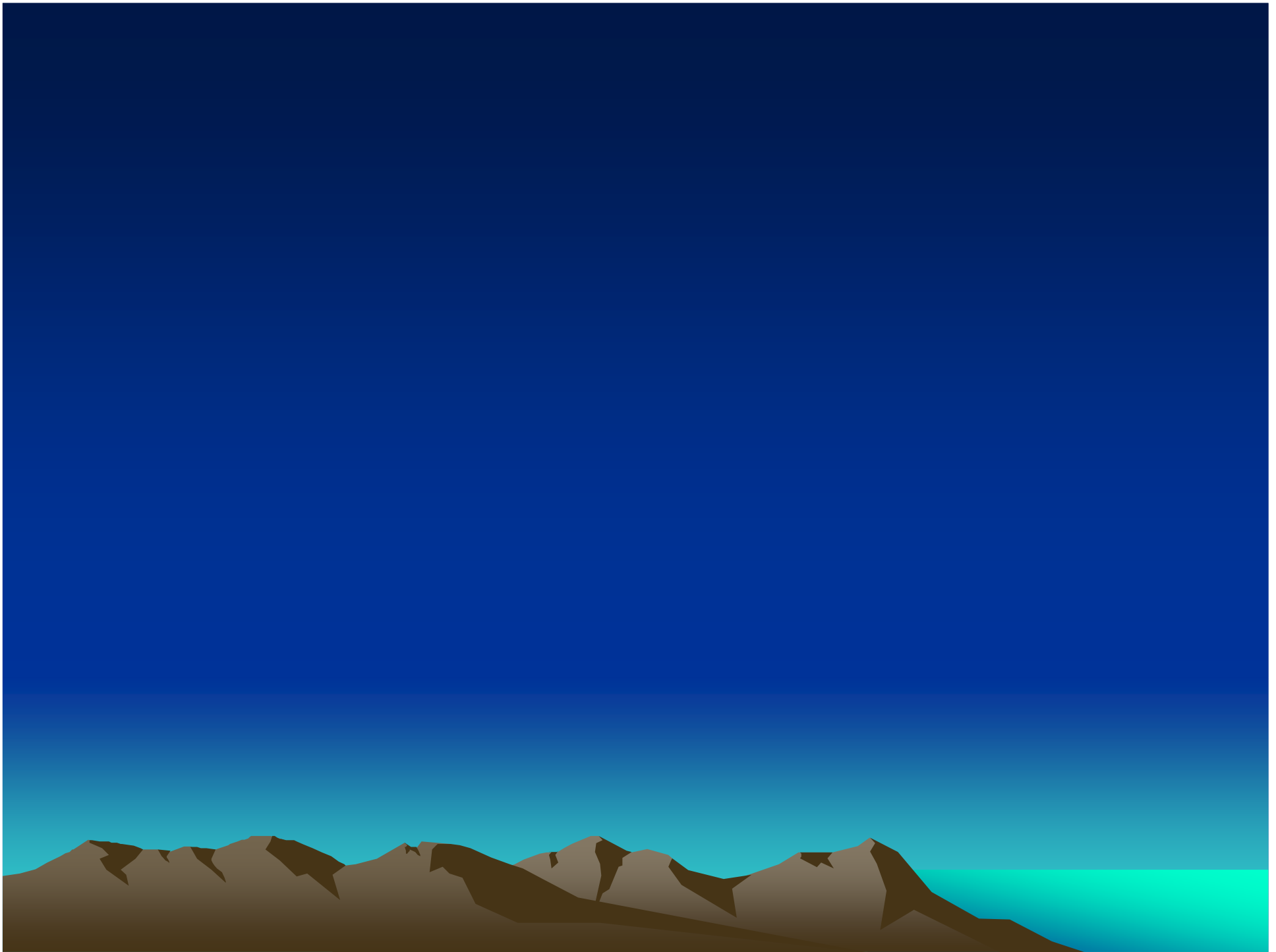


We've developed the ability to
precisely meet your specific
requirements.

- Processes > Steel Making

Worldwide expertise in solutions

As the only global provider of
technological solutions along
the entire value-added chain of
iron and steel production, and
the largest provider worldwide



possible process routes which will be used to optimize your steelmaking plant. Siemens VAI supplies the entire range of products, systems and processes for efficient and reliable steel production. From the expansion or modernization of individual parts of a system through to a complete new build in the framework of a turnkey