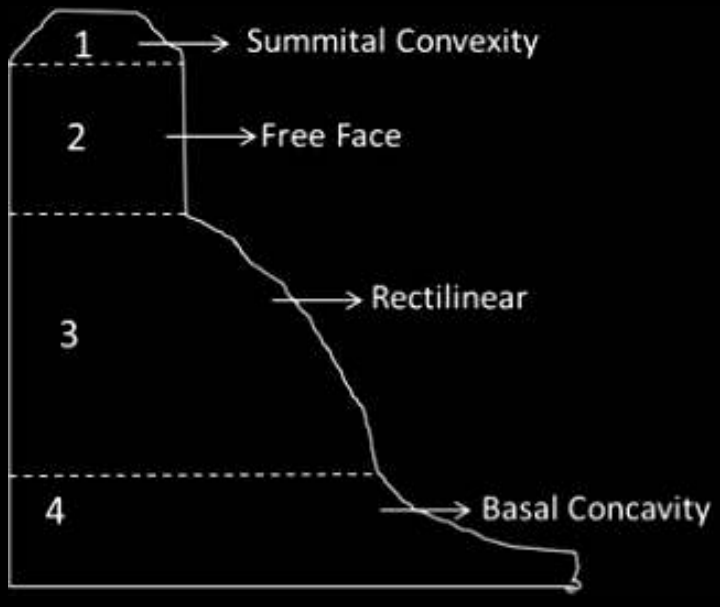
These Slides Accompany the YouTube Video Tutorial:
https://www.youtube.com/watch?v=0XXX0uKWNcg

SLOPE DEVELOPMENT

Elements of Slope Profile



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Classification of Slope

- Slope Element
- Quantitative Classification
- Genetic Classification

Approaches to Slope Development

- Slope Evolution Approach
- Process Form Approach

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Models of Slope Evolution

- Theory of Slope Decline - Davis
- Theory of Slope Replacement - Penck
- Theory of Parallel Retreat - King

	Slope Decline Theory (Davis)	Slope Replacement Theory (Penck)	Parallel Retreat Theory (King)
Region of Study	NW Europe & Northeast USA	Slopes of Andes & Alps	Slopes of South Africa
Climate	Humid areas	Tectonic Areas	Semi-arid landscape; sea cliffs with wave-cut platform
Description of Slope	Initially has steepest slope & with time angle decreases	Reduction in maximum angle as gentler lower slopes erode back	Maximum angle remains constant like slope facets apart from lower ones which increases concavity

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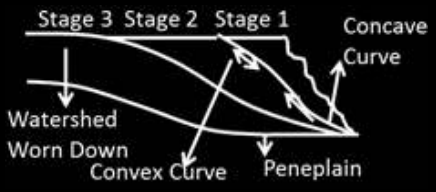
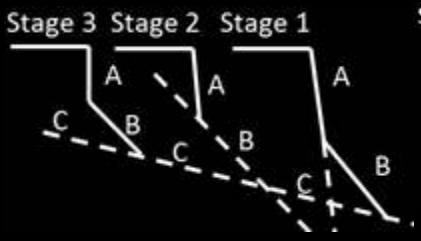
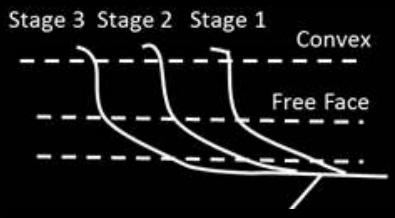
	Davis	Penck	King
Process	By stage 4, land turns convex-concave slope	Scree slope B will replace slope A; slope C replaces slope B	Flash floods remove concave debris on slope pediment
Changes over Time	Intermediate denudation assumes rapid land uplift.	Starts with straight rock slope with equal weathering overall.	Considering two facets of slope viz., gentle concave lower slope, & convex upper slope.







Slope Failure – Causes & Process