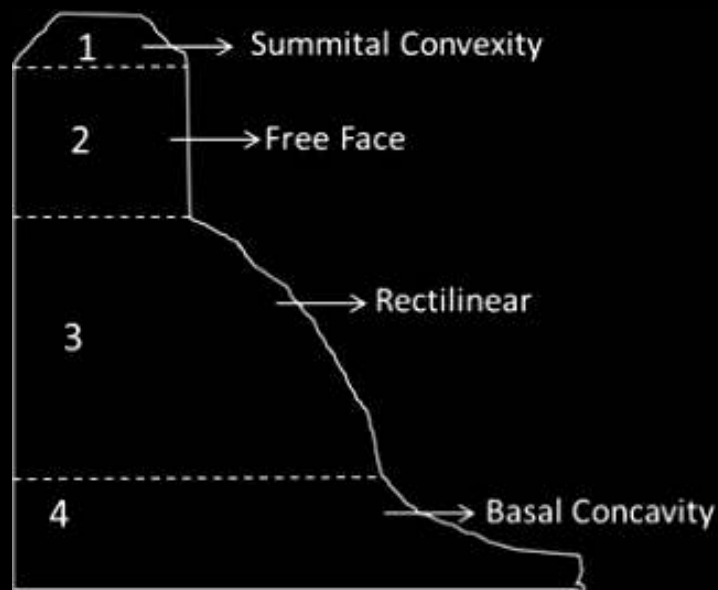


These Slides Accompany the YouTube Video Tutorial:
<https://www.youtube.com/watch?v=0XXX0uKWNcg>

SLOPE DEVELOPMENT

Elements of Slope Profile



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

Classification of Slope

Slope Element

Quantitative Classification

Genetic Classification

Approaches to Slope Development

Slope
Evolution
Approach

Process
Form
Approach

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

Models of Slope Evolution

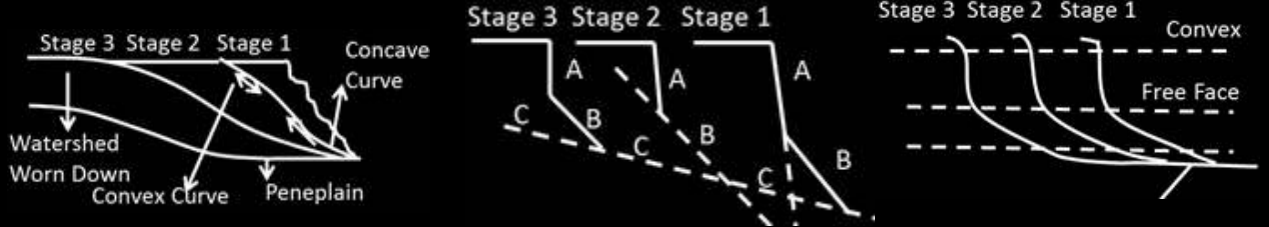
Theory of Slope Decline - Davis

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.
 <p>The diagrams illustrate the evolution of a landscape over time according to three different theories:</p> <ul style="list-style-type: none"> Davis (Left): Shows a landscape with a 'Watershed' and a 'Worn Down Convex Curve'. It identifies 'Stage 1' (a steep slope), 'Stage 2' (a gentler slope), and 'Stage 3' (a flat 'Peneplain'). A 'Concave Curve' is also indicated. Penck (Middle): Shows a landscape with a straight rock slope. It identifies 'Stage 1' (a steep slope), 'Stage 2' (a gentler slope), and 'Stage 3' (a flat slope). Slopes are labeled A, B, and C, showing how they change over time. King (Right): Shows a landscape with a 'Free Face' and a 'Convex' slope. It identifies 'Stage 1' (a steep slope), 'Stage 2' (a gentler slope), and 'Stage 3' (a flat slope). 			

Slope Failure – Causes & Process

Examrace